

328	HAMGW1 9	799889	338	119 - 475	1743	Ser-50 to Pro-55, Asn-62 to Gly-67.	AR052: 3, AR089: 3, AR096: 2, AR053: 2, AR104: 2, AR039: 1 S0222: 2, H0100: 2, L0438: 2, S0114: 1, S0001: 1, H0208: 1, H0123: 1, H0012: 1, H0620: 1, S6028: 1, H0328: 1, H0413: 1, S0038: 1, T0042: 1, L0439: 1 and L0593: 1.				89-105
329	HDPTA89	800344	339	173 - 949	1744	Thr-4 to Pro-28, Pro-51 to His-62, Pro-83 to Thr-91, Phe-100 to Trp-105, Ile-167 to Gln-182.	AR096: 1, AR052: 1, AR104: 1, AR060: 1, AR089: 1, AR033: 0, AR055: 0, AR061: 0, AR053: 0, AR039: 0 L0777: 11, L0751: 10, L0769: 7, L0758: 6, L0766: 5, H0617: 4, L0771: 4, L0776: 4, L0439: 4, L0757: 4, L0759: 4, H0253: 3, H0494: 3, L0761: 3, H0521: 3, L0754: 3, H0318: 2, H0150: 2, L0794: 2, L0805:				225-248, 106-122

330	HSLDO85	801935	340	100 - 618	1745	Pro-3 to Lys-12, Glu-17 to Leu-23, Ala-148 to Leu-173.	2, L0665: 2, L0743: 2, L0750: 2, L0752: 2, H0265: 1, S0342: 1, H0713: 1, S0218: 1, L0785: 1, H0484: 1, L0481: 1, S0420: 1, S0444: 1, H0637: 1, S0045: 1, S0046: 1, H0549: 1, H0486: 1, H0427: 1, H0599: 1, H0618: 1, H0194: 1, T0115: 1, H0597: 1, H0231: 1, H0083: 1, H0266: 1, H0622: 1, H0424: 1, H0213: 1, H0553: 1, H0181: 1, H0087: 1, H0551: 1, H0623: 1, H0100: 1, H0560: 1, S0150: 1, H0695: 1, L0796: 1, L0643: 1, L0662: 1, L0803: 1, L0775: 1, L0809: 1, L0789: 1, L0663: 1, L0664: 1, H0691: 1, S0126: 1, H0682: 1, S0330: 1, S0152: 1, L0749: 1, L0756: 1, L0779: 1, L0780: 1, L0753: 1, H0445: 1 and H0667: 1.	1p36.3- p36.2	120550, 120570, 120575, 130500, 133200,	25-46, 101-122, 46-62, 126-142
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L0755: 6, L0769: 4, H0009: 3, H0012: 3, L0783: 3, L0749: 3, L0750: 3, L0779: 3, L0731: 3, S0376: 2, H0545: 2, S0051: 2, H0606: 2, H0100: 2, L0638: 2, L0665: 2, S0028: 2, L0751: 2, L0747: 2, L0756: 2, L0758: 2, L0603: 2, H0265: 1, H0294: 1, H0341: 1, S0212: 1, S0410: 1, S0045: 1, H0393: 1, H0549: 1, S0222: 1, H0586: 1, H0331: 1, L0623: 1, T0060: 1, H0581: 1, S0049: 1, H0309: 1, L0471: 1, H0620: 1, H0024: 1, H0266: 1, H0428: 1, H0213: 1, L0456: 1, S0366: 1, S0036: 1, H0040: 1, S0142: 1, L0763: 1, L0371: 1, L0772: 1, L0372: 1, L0646: 1, L0764: 1, L0773: 1, L0766: 1, L0774: 1, L0775: 1, L0776: 1, L0809: 1, L0519: 1, H0520: 1, H0519: 1, S0126: 1, H0660: 1, S0350: 1, S0406: 1, H0436: 1, S3012: 1, L0752: 1, L0757: 1, S0436: 1, L0592: 1, S0276:	153454, 167410, 236250, 256700, 600975
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331	HDQDF38	805499	341	791 - 1792	1746	Pro-3 to Lys-13, Thr-26 to Thr-41.	1 and H0422: 1, AR096: 3, AR089: 2, AR052: 1, AR061: 1, AR033: 1, AR053: 1, AR060: 1, AR055: 0, AR039: 0, AR104: 0 L0766: 7, L0662: 4, L0789: 4, L0748: 4, L0749: 4, L0769: 3, L0776: 3, L0438: 3, H0521: 3, H0556: 2, S0360: 2, L0717: 2, L0794: 2, L0666: 2, L0663: 2, H0547: 2, S0028: 2, L0754: 2, H0422: 2, T0049: 1, H0657: 1, H0411: 1, H0586: 1, H0013: 1, H0098: 1, H0575: 1, L0471: 1, L0163: 1, L0455: 1, S0366: 1, S0036: 1, H0038: 1, H0551: 1, L0763: 1, L0800: 1, L0387: 1, L0803: 1, L0805: 1, L0518: 1, L0809: 1, H0660: 1, H0696: 1, H0555: 1, L0612: 1, S0032: 1, L0742: 1, L0740: 1, L0747: 1, L0750: 1, L0756: 1, L0777: 1, L0757: 1, H0423: 1 and L0600: 1.				311-330
332	HULAW69	805628	342	271 -	1747	Phe-44 to Asn-55,	AR033: 14, AR096: 13, H0423: 1 and L0600: 1.				65-84, 20-



			678	Arg-86 to Gly-92.	AR104: 11, AR039: 10, AR061: 9, AR052: 9, AR055: 9, AR060: 8, AR089: 8, AR053: 5 S0278: 15, S0126: 14, L0742: 13, L0754: 11, L0758: 10, L0751: 8, L0747: 8, L0748: 7, H0305: 6, S0360: 6, H0530: 6, H0545: 6, L0776: 6, L0744: 6, H0484: 5, H0638: 5, S0007: 5, S0045: 5, H0617: 5, S0144: 5, L0766: 5, L0805: 5, S0027: 5, L0750: 5, L0757: 5, H0445: 5, H0542: 5, H0657: 4, S0046: 4, H0370: 4, S0051: 4, H0424: 4, H0087: 4, H0551: 4, S0142: 4, S0344: 4, L0763: 4, L0770: 4, L0764: 4, L0662: 4, L0768: 4, L0803: 4, L0775: 4, H0539: 4, H0521: 4, L0743: 4, L0752: 4, L0603: 4, H0543: 4, S0040: 3, S0442: 3, S0358: 3, S0408: 3, H0549: 3, H0486: 3, H0544: 3, H0150: 3, H0023: 3, H0510: 3, H0646: 3, L0771: 3, L0773: 3, L0794: 3, L0774:			38
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333	HE9QK23	805751	343	321 - 737	1748	Met-1 to Phe-10, Gly-13 to Leu-56, Gln-132 to Thr-139.			AR055: 8, AR061: 7, AR033: 5, AR089: 4, AR053: 4, AR096: 4, AR052: 4, AR060: 4, AR039: 0, AR104: 0 H0616: 3, L0662: 3, L0754: 3, T0039: 2, L0758: 2, S0360: 1, S0045: 1, S6026: 1, S0222: 1, H0427: 1, H0038: 1, L0769: 1, L0805: 1, L0776: 1, L0659: 1, L0789: 1, H0144: 1, L0779: 1, L0777: 1, L0757: 1 and S0192: 1.				72-96
334	HNTTB36	806145	344	93 - 410	1749				AR033: 8, AR089: 3, AR096: 2, AR104: 2, AR053: 1, AR060: 1, AR061: 1, AR052: 0	2			48-65

335	HETJG63	806385	345	109 - 462	1750			AR039: 0, AR055: 0 S0346: 1, L0438: 1, H0520: 1, H0547: 1 and H0519: 1. AR060: 10, AR055: 7, AR033: 5, AR096: 4, AR052: 4, AR039: 3, AR089: 3, AR061: 3, AR104: 2, AR053: 2 H0046: 2 and H0616: 1.			64 87	
336	HLDRO45	806430	346	186 - 674	1751	Asn-133 to Trp-143, Ala-145 to Phe-151.		AR096: 2, AR039: 1, AR053: 1, AR089: 1, AR055: 1, AR060: 1, AR061: 1, AR033: 1, AR104: 0, AR052: 0 L0748: 11, L0752: 6, H0266: 5, L0770: 4, L0740: 4, L0750: 4, L0596: 4, S0212: 3, L0766: 3, L0803: 3, L0756: 3, H0402: 2, H0427: 2, S0010: 2, T0003: 2, T0067: 2, S0386: 2, T0041: 2, L0769: 2, L0796: 2, L0804: 2, H0576: 2, L0747: 2, H0445: 2, L0588: 2, L0599: 2, H0543: 2, H0556: 1, S6024: 1, H0341: 1, H0306: 1, H0340: 1, H0351: 1, S6014: 1, H0431:			99-130, 13-38, 57- 73, 36-52	

337	HFIDZ38	806756	347	45 - 584	1752				1, H0331: 1, T0039: 1, S0280: 1, L0021: 1, H0036: 1, H0390: 1, H0052: 1, H0041: 1, H0123: 1, H0057: 1, H0083: 1, S0023: 1, H0510: 1, S0003: 1, H0628: 1, H0032: 1, H0674: 1, H0598: 1, S0036: 1, H0551: 1, S0448: 1, L0764: 1, L0648: 1, L0768: 1, L0375: 1, L0525: 1, L0809: 1, L0519: 1, L0647: 1, L0788: 1, S0126: 1, H0521: 1, S0406: 1, S3012: 1, S3014: 1, S0027: 1, L0439: 1, L0779: 1, L0757: 1, L0758: 1, H0444: 1, H0595: 1, H0665: 1, S0192: 1, H0423: 1 and H0352: 1.				64-85, 24- 40, 115- 131, 91- 107, 7-23
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338	HLMD095	810257	348	113 - 484	1753	Met-1 to Asn-8.	2, S0408: 2, H0580: 2, L0021: 2, H0135: 2, L0768: 2, L0805: 2, L0809: 2, L0787: 2, L0438: 2, H0547: 2, S0406: 2, L0754: 2, L0745: 2, L0758: 2, L0759: 2, S0192: 2, L0393: 1, H0657: 1, H0656: 1, H0661: 1, H0662: 1, S0356: 1, S0358: 1, S0360: 1, H0549: 1, H0486: 1, H0581: 1, H0009: 1, H0014: 1, H0548: 1, H0268: 1, S0015: 1, S0144: 1, S0344: 1, L0769: 1, L0800: 1, L0662: 1, L0767: 1, L0794: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0632: 1, L0655: 1, L0807: 1, L0659: 1, L0517: 1, L0783: 1, L0647: 1, L0663: 1, L0664: 1, L0665: 1, L0352: 1, H0690: 1, H0521: 1, S0044: 1, L0740: 1, L0749: 1, L0752: 1, L0731: 1, H0543: 1, H0423: 1 and H0506: 1.	AR089: 28, AR096: 27, AR053: 19, AR052: 18, AR039: 17, AR060: 17, AR033: 14, AR104: 11.	25-46, 94-112, 56-72
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339	HSLGA19	810406	349	5 - 859	1754	Leu-28 to Arg-33, Glu-44 to Thr-49, Tyr-66 to Arg-72, Pro-82 to Ile-103.	AR055: 11, AR061: 7 AR052: 3, AR055: 3, AR061: 2, AR096: 2, AR089: 2, AR060: 2, AR033: 1, AR053: 1, AR039: 1, AR104: 1 H0381: 1, H0255: 1, S0052: 1 and S0028: 1.				192-213
340	HGBGM53	810461	350	38 - 355	1755	Gln-35 to Leu-40.	AR055: 8, AR052: 8, AR053: 6, AR060: 5, AR061: 4, AR089: 4, AR096: 4, AR033: 4, AR039: 3, AR104: 2 L0439: 6, H0556: 3, H0052: 2, H0413: 2, L0748: 2, L0754: 2, L0731: 2, H0543: 2, H0341: 1, S0418: 1, S0442: 1, S0360: 1, H0734: 1, S0007: 1, S0045: 1, H0393: 1, H0411: 1, H0545: 1, H0569: 1, H0014: 1, H0271: 1, H0416: 1, H0286: 1, H0130: 1, H0649: 1, H0529: 1, L0523: 1, L0438: 1, H0547: 1, H0593: 1, H0435: 1, S0380: 1, L0741: 1, L0744: 1, L0740: 1, L0749: 1, S0434: 1,				55-71, 77- 93



341	HIBCO73	810586	351	3 - 1100	1756				S0436: 1, L0366: 1, H0423: 1 and S0456: 1. AR096: 6, AR053: 6, AR052: 5, AR089: 3, AR055: 3, AR104: 2, AR060: 2, AR033: 2, AR061: 2, AR039: 1 L0748: 6, L0666: 3, L0749: 3, S0420: 2, H0486: 2, L0809: 2, L0789: 2, L0438: 2, H0521: 2, H0542: 2, H0713: 1, H0716: 1, S0212: 1, S0001: 1, H0125: 1, L0617: 1, S0356: 1, S0360: 1, S0300: 1, H0575: 1, H0253: 1, H0318: 1, H0581: 1, H0309: 1, H0081: 1, T0010: 1, H0634: 1, H0412: 1, H0059: 1, H0100: 1, L0769: 1, L0794: 1, L0803: 1, L0774: 1, L0806: 1, L0805: 1, L0659: 1, L0382: 1, L0663: 1, L0665: 1, S0126: 1, L0743: 1, L0777: 1 and L0592: 1.			151-168, 61-77
342	HDPOM13	810899	352	183 - 779	1757	Ser-34 to His-42, Pro-51 to Asp-63.			AR053: 2, AR055: 2, AR033: 1, AR096: 1, AR061: 1, AR104: 1, AR060: 1, AR039: 1,		181-199	

343	HMEJR75	811268	353	171 - 671	1758	Asn-20 to Arg-26, Pro-74 to Glu-79.	AR089: 0, AR052: 0 H0521: 8, H0522: 3, H0644: 2, L0769: 2, L0779: 2, H0580: 1, H0549: 1, S0002: 1 and L0791: 1. AR033: 7, AR055: 6, AR060: 4, AR089: 4, AR052: 4, AR061: 4, AR053: 4, AR039: 2, AR096: 1, AR104: 1 H0266: 2, S0354: 1, H0619: 1, S0250: 1, L0438: 1 and L0758: 1.	2p13	203800, 602404	81-97	
344	HOECE93	812221	354	54 - 575	1759	Leu-27 to Gln-34, Ser-48 to Ile-56, Lys-73 to Ser-86.	AR055: 7, AR033: 5, AR096: 5, AR060: 5, AR104: 4, AR061: 3, AR089: 3, AR053: 3, AR052: 2, AR039: 0 H0144: 6, L0803: 4, L0439: 4, L0749: 3, H0421: 2, H0052: 2, L0769: 2, L0774: 2, L0809: 2, L0438: 2, L0747: 2, L0731: 2, L0757: 2, L0758: 2, H0657: 1, L0021: 1, S0049: 1, H0327: 1, H0424: 1, H0674: 1, L0455: 1, L0456: 1, S0002: 1, L0763: 1, L0761: 1, L0642: 1, L0643: 1,			154-174, 126-144	

345	HLHGA65	812445	355	22 - 444	1760	Thr-3 to Ser-16, His-30 to Asp-35, Thr-130 to Leu-135.	L0775: 1, L0793: 1, L0666: 1, H0693: 1, L0352: 1, S0126: 1, S0037: 1, L0742: 1, L0750: 1, L0759: 1 and L0361: 1. AR055: 12, AR052: 10, AR033: 9, AR060: 7, AR053: 7, AR061: 6, AR096: 6, AR089: 5, AR039: 3, AR104: 3 H0617: 4, H0024: 1, S0028: 1 and L0759: 1.				84-111, 39-57
346	HMABF89	812465	356	67 - 552	1761	Cys-20 to Pro-29, Glu-46 to Asp-52, Asp-59 to Ser-73.	AR055: 9, AR060: 7, AR033: 6, AR061: 6, AR089: 5, AR053: 5, AR052: 5, AR096: 4, AR039: 3, AR104: 3 H0717: 2, H0589: 2, S0444: 2, S0386: 2, L3905: 2, H0521: 2, S0356: 1, H0549: 1, H0575: 1, S0010: 1, T0010: 1, H0031: 1, H0553: 1, H0135: 1, H0090: 1, H0551: 1, S0144: 1, S0142: 1, L0521: 1, L0662: 1, L0803: 1, L0775: 1, L0663: 1, S0428: 1, H0144: 1, H0519: 1, H0522: 1, S0028: 1, L0592: 1 and				125-156, 27-46, 100-123

347	HLKDC74	812760	357	195 - 932	1762	Gly-25 to Gly-30, Pro-105 to Val-112, Glu-137 to Cys-146, Pro-215 to Cys-223, Pro-226 to Arg-240.	H0136: 1. AR060: 1, AR055: 1, AR096: 0, AR061: 0, AR039: 0, AR104: 0, AR033: 0, AR089: 0, AR052: 0, AR053: 0 H0542: 2, H0584: 1, H0611: 1, H0592: 1, H0427: 1, L0644: 1, L0648: 1, L0806: 1, H0522: 1, H0543: 1 and H0422: 1.	1p36.3	120550, 120570, 120575, 153454, 236250, 256700	171-200, 4-24
348	HDTAV81	813300	358	311 - 766	1763	Met-1 to Cys-8.	AR053: 11, AR096: 9, AR052: 9, AR039: 6, AR089: 4, AR033: 4, AR055: 3, AR060: 3, AR104: 3, AR061: 2 H0656: 2, H0457: 2, H0634: 2, H0521: 2, H0436: 2, H0341: 1, S0418: 1, H0486: 1, H0581: 1, H0271: 1, L0362: 1 and H0423: 1.			105-122
349	HETIZ34	815417	359	74 - 1915	1764	Pro-46 to Tyr-51.	AR033: 10, AR104: 9, AR055: 8, AR052: 8, AR060: 8, AR089: 6, AR096: 6, AR053: 5, AR061: 3, AR039: 3 S0222: 8, L0662: 8, L0005: 7, L0665: 7, L0659: 6, L0666: 6, H0547: 6,			477-500, 385-401, 448-464, 13-29, 514-530, 581-597, 166-182

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350	HWLIX39	815669	360	84 - 1052	1765	Ser-4 to Glu-11, Tyr-14 to Lys-29, Arg-101 to Arg-106, Gly-239 to Tyr-246.	H0427: 1, S0280: 1, H0590: 1, H0390: 1, S0474: 1, H0052: 1, T0110: 1, H0545: 1, H0178: 1, H0562: 1, H0123: 1, H0373: 1, H0201: 1, H0355: 1, S0003: 1, H0615: 1, H0428: 1, T0006: 1, H0031: 1, H0553: 1, H0032: 1, S0036: 1, H0163: 1, H0551: 1, L0564: 1, L0370: 1, S0370: 1, S0450: 1, L0769: 1, L0637: 1, L5565: 1, L0372: 1, L0773: 1, L0650: 1, L0806: 1, L0527: 1, L0526: 1, L0783: 1, L0809: 1, S0374: 1, H0520: 1, H0682: 1, H0659: 1, S0328: 1, S0330: 1, H0539: 1, S0380: 1, L0602: 1, S0152: 1, H0555: 1, L0753: 1, L0755: 1, L0759: 1, S0260: 1, S0434: 1, S0436: 1, L0366: 1, H0667: 1 and S0242: 1.					40-65, 197-214, 107-123, 160-176, 63-79
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351	HDTJT12	823632	361	37 - 354	1766	Pro-14 to Gly-23, Arg-93 to Pro-100.	1, H0586: 1, H0253: 1, H0039: 1, H0038: 1 and S0434: 1. AR089: 5, AR060: 3, AR033: 3, AR096: 3, AR039: 1, AR052: 1, AR061: 1, AR055: 0, AR104: 0, AR053: 0 H0618: 5, H0253: 5, L0758: 3, H0370: 2, H0107: 2, H0674: 2, H0135: 2, L0803: 2, H0521: 2, L0747: 2, L0779: 2, H0583: 1, S0212: 1, S0442: 1, S0358: 1, S0360: 1, S0408: 1, H0580: 1, S0046: 1, H0619: 1, H0393: 1, H0486: 1, H0635: 1, H0599: 1, H0590: 1, H0083: 1, H0510: 1, H0038: 1, H0488: 1, H0623: 1, H0494: 1, S0382: 1, L0770: 1, L0769: 1, L0648: 1, L0549: 1, L0791: 1, S0052: 1, H0519: 1, H0670: 1, H0666: 1, H0651: 1, S0404: 1, L0748: 1, L0777: 1, L0755: 1, S0434: 1, S0436: 1, L0588: 1, L0593: 1, L0601: 1, H0216: 1 and H0543: 1.	14q32.1	107280, 107280, 107400, 107400, 122500, 186960, 245200, 601841	68-93, 39- 59
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352	HSVCA10	824800	362	117 - 455	1767	Glu-14 to Met-26, Leu-77 to Asn-88, Lys-96 to Gly-104.	AR055: 7, AR052: 4, AR060: 4, AR061: 4, AR039: 4, AR053: 4, AR033: 3, AR096: 3, AR089: 2, AR104: 1 H0309: 1			44-64
353	HDFQA53	825910	363	91 - 459	1768	Ala-4 to Glu-13, Gln-80 to Trp-90.	AR039: 54, AR096: 22, AR033: 21, AR053: 21, AR055: 17, AR104: 15, AR089: 13, AR060: 12, AR052: 11, AR061: 9 S0474: 5, L0770: 3, L0790: 3, H0421: 2, S0422: 2, L0769: 2, L0759: 2, H0327: 1, H0566: 1, H0051: 1, S0036: 1, L3905: 1, L0803: 1, L0809: 1 and S0260: 1.			39-64, 57- 79, 89-114
354	HE9PC92	827237	364	309 - 776	1769	Met-1 to Glu-6, Ser-16 to Phe-40, Glu-75 to Leu-83, Cys-86 to Lys-99, Ser-116 to Asp-124, Leu-127 to Glu-136.	AR089: 5, AR060: 5, AR061: 5, AR096: 3, AR055: 3, AR033: 2, AR104: 2, AR039: 2, AR053: 1, AR052: 1 S0046: 1, H0592: 1, H0486: 1, H0013: 1, H0581: 1, L0809: 1 and H0144: 1.			39-73
355	HMSOU92	827837	365	261 - 653	1770	Ser-42 to Ser-47, Arg-91 to Lys-99.	AR039: 14, AR096: 13, AR089: 12, AR060: 10, AR104: 10, AR033: 8,			53-70, 7- 23



356	HE8OX52	828103	366	122 - 457	1771	Cys-29 to Asp-35, Pro-63 to Pro-70.	AR052: 7, AR053: 6, AR055: 5, AR061: 4 S0426: 2 and L0596: 2. AR061: 6, AR033: 5, AR055: 5, AR060: 4, AR104: 3, AR052: 3, AR053: 3, AR089: 2, AR096: 2, AR039: 0 L0415: 1, H0619: 1, H0013: 1, H0052: 1, T0010: 1, H0591: 1, H0521: 1, S3014: 1, L0439: 1, L0596: 1 and S0242: 1.	1p36.33- 1p36.11	120550, 120570, 120575, 130500, 133200, 600975	93-109
357	HDAAS81	828170	367	115 - 489	1772	Arg-16 to Glu-27, Gln-37 to Phe-44, Cys-52 to Glu-58, Leu-85 to Lys-91.	AR096: 2, AR061: 1, AR033: 1, AR060: 1, AR053: 0, AR104: 0, AR039: 0, AR089: 0, AR055: 0 L0754: 15, L0439: 14, L0666: 7, L0777: 7, S0003: 6, L0163: 4, H0553: 4, H0040: 4, L0803: 4, L0779: 4, L0755: 4, H0624: 3, S0358: 3, L0471: 3, S0426: 3, L0794: 3, L0659: 3, H0547: 3, L0602: 3, H0696: 3, L0748: 3, L0731: 3, L0757: 3, H0295: 2, S0212: 2, H0661: 2, S0376: 2,			97-124

H0329: 2, S0046: 2, S0132: 2, L0717: 2, H0581: 2, H0023: 2, H0428: 2, H0644: 2, L0662: 2, L0776: 2, L0663: 2, S0374: 2, L0438: 2, H0555: 2, L0744: 2, L0747: 2, S0434: 2, S0242: 2, S0194: 2, S0276: 2, S0196: 2, H0686: 1, S0040: 1, T0049: 1, H0583: 1, S0282: 1, H0255: 1, H0638: 1, S0442: 1, S0444: 1, S0360: 1, H0645: 1, H0351: 1, S0278: 1, H0497: 1, H0333: 1, H0632: 1, H0486: 1, H0013: 1, H0108: 1, H0042: 1, H0575: 1, H0004: 1, H0251: 1, H0263: 1, H0046: 1, H0457: 1, H0024: 1, H0014: 1, H0179: 1, S0214: 1, H0328: 1, L0194: 1, H0628: 1, H0090: 1, H0551: 1, T0067: 1, H0623: 1, L0564: 1, H0633: 1, S0142: 1, H0529: 1, L0369: 1, L0763: 1, L0770: 1, L0761: 1, L0372: 1, L0646: 1, L0764: 1, L0648: 1, L0768: 1, L0766: 1, L0774: 1, L0375: 1, L0651: 1,
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358	HUSIK57	828267	368	142 - 471	1773	Gly-71 to Leu-84.	L0805: 1, L0653: 1, L0657: 1, L0789: 1, L0665: 1, H0144: 1, L0565: 1, H0519: 1, H0689: 1, H0682: 1, H0672: 1, S0330: 1, S0152: 1, H0521: 1, H0704: 1, S3014: 1, L0750: 1, L0758: 1, S0260: 1, H0595: 1, S0436: 1, L0591: 1, S0011: 1, H0667: 1, S0192: 1 and H0506: 1. AR052: 8, AR053: 7, AR033: 7, AR055: 5, AR089: 4, AR060: 4, AR096: 3, AR061: 3, AR039: 3, AR104: 2 L0779: 15, L0775: 9, L0758: 9, L0770: 7, L0769: 6, L0740: 5, L0754: 5, L0757: 5, S0408: 4, L0766: 4, L0789: 4, L0777: 4, L0759: 4, L0601: 4, H0224: 3, L0771: 3, L0776: 3, L0747: 3, L0752: 3, L0755: 3, H0549: 2, H0196: 2, H0083: 2, S0150: 2, L0763: 2, L0764: 2, L0787: 2, H0660: 2, L0750: 2, L0780: 2, H0170: 1, H0685: 1, S0040: 1, H0657: 1, H0638:					40-71, 83- 99, 32-48
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359	HPRBB67	828597	369	100 - 903	1774	Asp-50 to Ile-64, Gln-66 to Asp-71, Thr-177 to Ser-183, Arg-246 to Thr-263.	1, S0418: 1, S0356: 1, S0358: 1, H0329: 1, S0278: 1, H0550: 1, S0222: 1, H0586: 1, L0622: 1, L0021: 1, H0390: 1, L0471: 1, S0050: 1, H0014: 1, H0594: 1, H0266: 1, H0188: 1, H0615: 1, H0038: 1, H0272: 1, H0412: 1, H0560: 1, S0144: 1, L0772: 1, L0646: 1, L0773: 1, L0768: 1, L0774: 1, L0653: 1, L0655: 1, L0515: 1, L0526: 1, L0783: 1, L0383: 1, H0520: 1, H0648: 1, S0152: 1, S0190: 1, L0742: 1, L0746: 1, L0756: 1, H0542: 1 and H0352: 1. AR055: 14, AR060: 9, AR052: 7, AR104: 5, AR096: 5, AR033: 5, AR089: 5, AR053: 4, AR061: 3, AR039: 2 L0794: 7, L0804: 5, L0747: 5, L0800: 4, L0803: 4, S0003: 3, L0752: 3, L0758: 3, H0638: 2, H0169: 2, L0770: 2, L0769: 2, L0774: 2, H0436: 2, L0748: 2, L0439: 2, L0750: 2,					193-209, 152-168, 117-133
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360	HPIBM51	828682	370	177 - 617	1775	Glu-42 to Ser-53.	L0777: 2, H0265: 1, H0305: 1, S0356: 1, H0013: 1, H0318: 1, H0052: 1, H0309: 1, H0597: 1, L0471: 1, H0032: 1, L0455: 1, T0042: 1, S0142: 1, L0638: 1, L0768: 1, L0775: 1, L0651: 1, L0809: 1, L0788: 1, S0053: 1, S0216: 1, H0144: 1, S0328: 1, H0521: 1, H0523: 1, S0146: 1, H0478: 1, L0780: 1 and L0608: 1.					91-108
361	HLYFY81	828777	371	143 - 919	1776		AR055: 10, AR061: 9, AR060: 6, AR033: 5, AR052: 5, AR089: 4, AR053: 3, AR039: 2, AR096: 1, AR104: 1 H0583: 1, H0415: 1 and S0150: 1. AR033: 15, AR039: 13, AR055: 13, AR053: 12, AR096: 11, AR089: 11, AR052: 11, AR061: 10, AR104: 9, AR060: 8 L0770: 4, L0748: 3, L0750: 3, H0622: 2, H0169: 2, L0769: 2, L0766: 2, L0775: 2, L0806: 2, L0776: 2, H0436: 2, L0741: 2,					227-258

362	HDPLO68	828826	372	398 - 730	1777	Glu-22 to Lys-27, Glu-39 to Asn-44, Met-55 to Ser-60, Leu-71 to Gln-80.	L0740: 2, H0445: 2, H0556: 1, S0114: 1, H0657: 1, S0001: 1, H0255: 1, H0638: 1, S0444: 1, S0046: 1, H0231: 1, H0530: 1, H0546: 1, H0545: 1, H0123: 1, H0012: 1, H0051: 1, H0594: 1, H0039: 1, H0424: 1, H0617: 1, H0560: 1, H0366: 1, H0652: 1, L0369: 1, L0772: 1, L0773: 1, L0662: 1, L0387: 1, L0649: 1, L0783: 1, L0665: 1, S0152: 1, S3012: 1, L0777: 1, L0757: 1, L0758: 1 and H0506: 1.					83-109
363	HHEUU25	828922	373	174 - 1403	1778	Met-1 to Ser-9.	AR104: 2, AR039: 1, AR096: 1, AR033: 1, AR055: 1, AR060: 1, AR061: 0, AR089: 0, AR053: 0, AR052: 0 S0002: 2, H0431: 1, S0003: 1, H0644: 1, H0521: 1, S0044: 1, S0146: 1 and S0028: 1.			1p32-p34	120950, 120960, 130500, 133200.	305-321

364	HNTBH70	828926	374	49 - 522	1779	Gly-101 to Tyr-110.	AR104: 9, AR061: 9 H0046: 6, L0794: 4, H0547: 4, L0439: 3, L0779: 3, H0543: 3, L0454: 2, L0768: 2, L0663: 2, L0665: 2, L0749: 2, L0777: 2, H0716: 1, H0657: 1, H0662: 1, S0278: 1, T0039: 1, H0013: 1, H0052: 1, L0471: 1, H0591: 1, H0264: 1, S0440: 1, S0150: 1, S0002: 1, L0369: 1, L0640: 1, L0770: 1, L0662: 1, L0766: 1, L0803: 1, L0804: 1, L0378: 1, L0806: 1, L0666: 1, H0519: 1, H0539: 1, H0521: 1, S0176: 1, H0555: 1, L0747: 1, L0755: 1, L0731: 1, L0758: 1, L0362: 1 and S0424: 1. AR096: 2, AR089: 2, AR033: 1, AR039: 1, AR061: 1, AR052: 1, AR060: 1, AR055: 0, AR053: 0, AR104: 0 S0414: 8, L0754: 7, L0766: 6, L0758: 5, L0794: 3, L0592: 3, S0007: 2, L0471: 2, H0032: 2, H0038: 2, L0659: 2, H0710: 2,	138140, 168360, 171760, 171760, 176100, 176100, 178300, 187040, 230000, 255800, 600101, 600650, 600650, 600722, 600722	81-99
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365	HMIAN37	828988	375	55 - 1137	1780	Asp-42 to Lys-57.	L0745: 2, L0756: 2, H0624: 1, H0171: 1, S0278: 1, H0389: 1, H0431: 1, H0632: 1, H0156: 1, L0157: 1, H0510: 1, H0416: 1, S0336: 1, S0003: 1, H0428: 1, H0553: 1, H0169: 1, H0212: 1, H0040: 1, H0634: 1, L0638: 1, L0662: 1, L0803: 1, L0804: 1, L0650: 1, L0774: 1, L0776: 1, L0655: 1, L0809: 1, L0791: 1, S0052: 1, H0519: 1, L0355: 1, H0696: 1, H0436: 1, H0478: 1, L0779: 1, L0755: 1, S0436: 1 and H0543: 1.					15-31, 172-190
							AR061: 3, AR033: 2, AR089: 2, AR060: 2, AR096: 1, AR052: 1, AR055: 1, AR104: 1, AR053: 1, AR039: 0 S0414: 26, L0777: 8, L0758: 8, L0439: 5, L0779: 5, L0752: 4, L0471: 3, H0266: 3, H0032: 3, S0422: 3, L0766: 3, L0803: 3, L0809: 3, S0380: 3, L0740: 3, L0731: 3, S0192: 3, H0170: 2, H0657: 2, S0358: 2, S6016: 2, H0574: 2,					



	H0052: 2, H0009: 2, H0051: 2, S6028: 2, H0090: 2, H0591: 2, S0440: 2, L0653: 2, L0666: 2, L0663: 2, H0689: 2, H0658: 2, L0745: 2, L0747: 2, L0750: 2, L0753: 2, H0423: 2, S0412: 2, H0171: 1, H0656: 1, S0360: 1, S0408: 1, H0728: 1, L0717: 1, H0351: 1, H0411: 1, S0222: 1, H0392: 1, H0455: 1, H0587: 1, T0114: 1, S0474: 1, H0309: 1, H0263: 1, H0596: 1, H0046: 1, H0083: 1, S0022: 1, H0615: 1, H0428: 1, H0553: 1, H0628: 1, H0212: 1, H0068: 1, S0036: 1, H0268: 1, H0623: 1, T0069: 1, H0494: 1, S0438: 1, H0633: 1, H0529: 1, L0637: 1, L0764: 1, L0771: 1, L0794: 1, L0388: 1, L0804: 1, L0774: 1, L0805: 1, L0607: 1, L0659: 1, L0636: 1, L0647: 1, L0790: 1, L0664: 1, L0665: 1, S0374: 1, L0438: 1, H0519: 1, S0328: 1, S0378: 1, H0518: 1, S0152: 1, H0521: 1.					
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366	HPFDI25	829071	376	83 - 862	1781				AR033: 72, AR055: 60, AR089: 41, AR052: 40, AR053: 38, AR060: 37, AR061: 25, AR096: 11, AR104: 6, AR039: 4 L0777: 15, L0766: 7, L0776: 6, L0751: 6, L0770: 4, L0775: 4, L0806: 4, L0805: 4, L0780: 4, S0214: 3, L0769: 3, L0774: 3, L0755: 3, H0599: 2, S0003: 2, L0768: 2, L0803: 2, L0807: 2, L0788: 2, L0743: 2, L0740: 2, L0754: 2, L0756: 2, L0779: 2, L0752: 2, L0758: 2, L0591: 2, L0603: 2, H0159: 1, H0661: 1, S0045: 1, S0222: 1, L0586: 1, H0575: 1, S0010: 1, S0474: 1, H0309: 1, S0050: 1, S0051: 1, S0022: 1, H0553: 1, H0169: 1, H0591: 1, H0038: 1, H0634: 1, S0142: 1, S0422: 1.												

367	HIBCN93	829308	377	282 - 938	1782	Met-1 to Asn-12, Glu-17 to Gln-26, Thr-43 to Ser-70, Ala-72 to Lys-88, Asp-131 to Val-136, Val-183 to Asp-190, Pro-192 to Ala-203.	L0369: 1, L0771: 1, L0521: 1, L0655: 1, L0783: 1, L0787: 1, S0374: 1, H0659: 1, S0152: 1, S3012: 1, L0439: 1, L0747: 1, L0750: 1, S0026: 1 and H0543: 1. AR053: 2, AR052: 2, AR096: 2, AR089: 2, AR033: 1, AR104: 1, AR055: 1, AR039: 1, AR060: 1, AR061: 1 L0740: 12, L0439: 10, L0766: 7, L0769: 4, L0794: 4, L0756: 4, H0549: 3, L0768: 3, L0803: 3, L0665: 3, S0206: 3, L0750: 3, H0423: 3, S0007: 2, S0010: 2, S0346: 2, H0052: 2, H0327: 2, H0024: 2, H0051: 2, L0763: 2, L0770: 2, H0144: 2, L0758: 2, H0556: 1, L0760: 1, S6026: 1, S0300: 1, H0550: 1, S0222: 1, H0392: 1, H0331: 1, H0013: 1, H0318: 1, S0049: 1, H0194: 1, H0103: 1, H0050: 1, L0471: 1, H0620: 1, H0373: 1, S0388: 1, T0010: 1, H0399: 1, H0553: 1, H0644: 1, H0032: 1,	6q21-q23.2	107470, 107470, 107470, 120110, 121014, 164200, 164200, 601316, 601666, 601757, 602772	88-106
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368	HCUDM68	829463	378	14 - 457	1783	Asp-9 to Tyr-15, Pro-27 to Lys-48, Ser-61 to Asn-67, Asp-104 to Asn-113.	H0124: 1, H0068: 1, S0036: 1, H0135: 1, H0038: 1, H0616: 1, H0551: 1, T0067: 1, H0100: 1, H0560: 1, H0561: 1, L0662: 1, L0649: 1, L0774: 1, L0517: 1, L0809: 1, L0647: 1, L0789: 1, L0792: 1, L0352: 1, S0126: 1, H0539: 1, S0380: 1, H0518: 1, S0004: 1, S0044: 1, S3014: 1, L0748: 1, L0747: 1, L0686: 1, L0592: 1, S0196: 1 and H0352: 1.	1p32-p31	120950, 120960, 138140, 178300, 180069, 180069, 180069, 187040, 201450, 248610, 600101, 600309, 600650, 600650, 600722, 600722,	69-86	
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L0755: 3, L0731: 3, L0758: 3, L0599: 3, S0412: 3, S0410: 2, H0645: 2, H0369: 2, S0222: 2, H0497: 2, H0013: 2, H0251: 2, H0083: 2, H0615: 2, S0422: 2, L0631: 2, L0764: 2, L0803: 2, L0774: 2, L0775: 2, L0527: 2, L0659: 2, H0519: 2, H0711: 2, H0670: 2, H0539: 2, S0350: 2, H0436: 2, L0745: 2, L0750: 2, L0362: 2, L0600: 2, H0624: 1, H0171: 1, H0265: 1, H0556: 1, T0002: 1, H0717: 1, S6024: 1, T0049: 1, H0583: 1, H0650: 1, S0001: 1, H0662: 1, H0402: 1, H0638: 1, S0356: 1, S0376: 1, S0360: 1, H0329: 1, H0729: 1, H0728: 1, L0717: 1, H0351: 1, H0441: 1, H0455: 1, H0592: 1, H0586: 1, H0492: 1, H0485: 1, T0040: 1, H0244: 1, H0427: 1, L0022: 1, H0004: 1, S0010: 1, S0346: 1, T0048: 1, H0052: 1, H0596: 1, H0597: 1, H0046: 1, H0050: 1, L0471: 1, H0024: 1,	601676, 602522
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369	HCFCU33	829601	379	830 - 279	1784	Asp-37 to Tyr-46, Asn-48 to Gly-55, Ala-58 to Gly-65, Thr-68 to Trp-81, Ser-89 to Thr-101,	H0051: 1, S6028: 1, S0003: 1, H0428: 1, T0023: 1, L0483: 1, H0169: 1, L0456: 1, H0163: 1, H0090: 1, H0038: 1, H0040: 1, T0067: 1, H0380: 1, H0433: 1, H0268: 1, T0041: 1, H0494: 1, H0561: 1, H0646: 1, S0208: 1, S0002: 1, S0426: 1, H0743: 1, H0529: 1, L0520: 1, L0763: 1, L0667: 1, L0627: 1, L0800: 1, L0378: 1, L0806: 1, L0658: 1, L0512: 1, L0542: 1, L0783: 1, L0809: 1, L0519: 1, L0788: 1, L0789: 1, L0791: 1, L0666: 1, L0663: 1, H0144: 1, H0682: 1, H0659: 1, H0672: 1, S0330: 1, H0521: 1, H0478: 1, H0626: 1, L0780: 1, L0759: 1, H0444: 1, S0434: 1, L0596: 1, L0581: 1, L0601: 1, H0668: 1, H0667: 1, S0194: 1, H0423: 1 and : 1.	5q31.1	131400, 147061, 147575, 147575, 147575,	108-137, 137-168
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						Leu-105 to Arg-110.	H0545: 2, H0135: 2, S0342: 1, H0484: 1, S0358: 1, S0278: 1, H0550: 1, H0370: 1, H0574: 1, H0492: 1, H0599: 1, H0575: 1, H0546: 1, H0123: 1, H0050: 1, H0012: 1, H0620: 1, S0051: 1, H0100: 1, H0494: 1, S0352: 1, H0132: 1, H0130: 1, L0764: 1, L0766: 1, H0144: 1, H0519: 1, S0126: 1, H0670: 1, H0660: 1, H0696: 1, S3014: 1, L0748: 1, L0745: 1, L0756: 1, L0731: 1, H0445: 1, L0595: 1, S0196: 1 and H0422: 1.	153455, 159000, 181460, 600807, 601596, 602089		
370	HTGCM10	829736	380	2389 - 1391	1785	Arg-5 to Ser-10, Ser-29 to Ser-39, Tyr-99 to Asp-104, Asp-115 to Ile-129, Gln-131 to Asp-136, Ser-208 to Ser-215, Lys-236 to Glu-247, Ser-307 to Ser-316, His-325 to Asn-331.	AR055: 8, AR052: 7, AR096: 5, AR089: 5, AR033: 5, AR060: 5, AR053: 5, AR061: 4, AR104: 3, AR039: 2 L0748: 10, L0740: 8, L0754: 7, L0770: 5, H0539: 5, L0439: 5, L0362: 5, H0641: 4, L0777: 4, L0599: 4, L0603: 4, S0444: 3, H0486: 3, L0804: 3, H0547: 3, L0749: 3, L0750: 3, H0663: 2, S0360: 2, S0045:		258-274, 217-233, 182-198	

						2, H0438: 2, H0013: 2, H0599: 2, S0003: 2, L0483: 2, H0031: 2, H0591: 2, S0144: 2, L0794: 2, L0803: 2, L0654: 2, L0657: 2, L0809: 2, L0438: 2, H0521: 2, H0522: 2, S3014: 2, L0751: 2, L0731: 2, L0596: 2, L0593: 2, S0242: 2, H0624: 1, S0040: 1, S0134: 1, H0583: 1, H0657: 1, H0483: 1, H0661: 1, H0662: 1, H0402: 1, H0638: 1, S0420: 1, S0442: 1, H0580: 1, H0329: 1, H0734: 1, S0476: 1, H0549: 1, S0222: 1, H0441: 1, H0431: 1, H0587: 1, S0280: 1, H0251: 1, H0569: 1, H0012: 1, H0057: 1, H0375: 1, S0250: 1, H0428: 1, L0142: 1, H0169: 1, S0036: 1, H0038: 1, H0616: 1, H0412: 1, H0494: 1, H0625: 1, S0438: 1, S0440: 1, H0509: 1, S0150: 1, S0344: 1, S0422: 1, S0002: 1, L0763: 1, L0769: 1, L0761: 1, L0646: 1, L0773: 1, L0766: 1, L0774: 1, L0775: 1, L0805:
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371	HFIIS05	830029	381	66 - 575	1786	Arg-9 to Thr-17, Lys-74 to Arg-89, Arg-135 to Glu-143, Ser-164 to Thr-170.	1, L0653: 1, L0776: 1, L0636: 1, L0792: 1, L0666: 1, H0520: 1, H0519: 1, H0593: 1, S0126: 1, H0659: 1, H0658: 1, H0710: 1, H0436: 1, S0027: 1, L0744: 1, L0747: 1, L0780: 1, L0752: 1, L0755: 1, L0758: 1, L0759: 1, S0436: 1, L0591: 1, L0592: 1 and S0276: 1.						102-118, 54-70
							AR052: 8, AR096: 7, AR033: 7, AR104: 5, AR053: 5, AR089: 4, AR060: 4, AR055: 4, AR061: 3, AR039: 3 H0556: 11, H0046: 7, H0617: 6, L0750: 6, L0769: 5, L0766: 5, L0759: 5, S0434: 5, H0265: 3, H0584: 3, S0358: 3, S0360: 3, H0266: 3, L0770: 3, L0771: 3, L0439: 3, L0749: 3, H0543: 3, H0657: 2, H0484: 2, S0420: 2, S0007: 2, H0497: 2, H0623: 2, H0494: 2, S0440: 2, L0763: 2, L0764: 2, L0666: 2, H0144: 2, S0328: 2, S0330: 2, S0406: 2, L0751: 2, L0754:						

					2, L0747: 2, L0592: 2, S0026: 2, T0002: 1, H0686: 1, H0713: 1, H0294: 1, T0049: 1, H0341: 1, H0664: 1, H0228: 1, H0402: 1, H0638: 1, S0418: 1, S0408: 1, S0046: 1, L0717: 1, H0370: 1, H0392: 1, H0333: 1, H0492: 1, H0486: 1, T0060: 1, H0069: 1, H0427: 1, H0575: 1, H0036: 1, T0001: 1, H0196: 1, H0251: 1, T0115: 1, H0545: 1, L0157: 1, H0012: 1, H0350: 1, H0328: 1, T0006: 1, H0604: 1, H0628: 1, H0181: 1, L0055: 1, H0135: 1, H0616: 1, H0413: 1, T0042: 1, H0560: 1, H0359: 1, H0561: 1, H0529: 1, L0762: 1, L0761: 1, L0372: 1, L0646: 1, L0641: 1, L0648: 1, L0768: 1, L0774: 1, L0775: 1, L0806: 1, L0653: 1, L0809: 1, H0547: 1, H0539: 1, H0521: 1, H0555: 1, S0037: 1, S0206: 1, L0745: 1, L0753: 1, L0755: 1, H0445: 1, S0194: 1 and S0276: 1.
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372	H2CBH25	830128	382	150 - 770	1787		AR052: 48, AR033: 27, AR104: 25, AR061: 24, AR060: 23, AR096: 18, AR053: 18, AR089: 15, AR055: 13, AR039: 4 T0110: 1, H0032: 1, H0212: 1, H0090: 1 and H0494: 1.			96-114, 5-21
373	HWLFQ55	830262	383	5 - 631	1788	Lys-4 to Glu-11.	AR089: 20, AR096: 9, AR052: 8, AR053: 6, AR060: 5, AR033: 4, AR039: 3, AR055: 3, AR104: 3, AR061: 2 S0354: 3, H0050: 1, L0483: 1 and H0670: 1.			28-59, 86-102
374	HWLBK80	830339	384	231 - 548	1789		AR096: 9, AR104: 9, AR033: 7, AR089: 6, AR039: 5, AR060: 5, AR053: 4, AR052: 3, AR061: 2, AR055: 2 S0374: 2			76-92, 53-69
375	HWHQR45	830348	385	75 - 911	1790	Ile-72 to Asn-77, Asp-98 to Gly-104.	AR033: 5, AR053: 5, AR052: 4, AR055: 4, AR089: 3, AR061: 2, AR060: 2, AR096: 1, AR104: 0, AR039: 0 H0663: 1, H0586: 1, H0587: 1, H0039: 1, S0440: 1 and L0771: 1.			10-30, 41-57, 171-187, 194-210

376	HTTDO45	830542	386	447 - 1637	1791	Leu-184 to Trp-190, Val-208 to Met-217, Glu-221 to Thr-228, Val-238 to Gly-243, Asp-266 to Asn-272, Arg-370 to Lys-375.	AR060: 13, AR061: 11, AR089: 6, AR033: 5, AR104: 4, AR053: 4, AR096: 3, AR039: 3, AR055: 2, AR052: 2 L0803: 30, S0358: 13, S0360: 6, S0438: 6, L0794: 6, L0774: 6, L0805: 6, H0717: 5, S0408: 5, S0440: 5, L0769: 5, L0775: 5, L0777: 5, S0444: 4, H0510: 4, L0439: 4, L0747: 4, L0731: 4, L0757: 4, L0601: 4, S0026: 4, H0556: 3, H0509: 3, L0662: 3, L0776: 3, L0807: 3, S0406: 3, L0581: 3, L0608: 3, H0624: 2, T0002: 2, S0218: 2, S0354: 2, H0722: 2, S0007: 2, H0333: 2, H0574: 2, H0599: 2, L0471: 2, H0373: 2, H0188: 2, H0644: 2, H0040: 2, L0761: 2, L0363: 2, L0651: 2, L0659: 2, L0783: 2, L0789: 2, H0521: 2, S0028: 2, L0744: 2, L0748: 2, L0745: 2, L0749: 2, S0436: 2, L0588: 2, L0362: 2, T0049: 1, H0657: 1, H0341: 1, H0638: 1,	I8		376-392, 278-294, 246-262
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377	HRGDD63	830829	387	38 - 370	1792	Phe-2 to His-9, Cys-16 to His-23, Val-31 to Arg-37, Pro-104 to Tyr-111.	S0442: 1, H0637: 1, H0441: 1, H0431: 1, H0586: 1, L0623: 1, H0013: 1, S0280: 1, H0575: 1, T0082: 1, H0581: 1, S0049: 1, L0033: 1, H0596: 1, L0040: 1, H0231: 1, S0362: 1, H0355: 1, H0622: 1, T0023: 1, S0366: 1, H0135: 1, H0163: 1, H0591: 1, H0551: 1, H0059: 1, L0564: 1, S0142: 1, S0344: 1, L0764: 1, L0773: 1, L0768: 1, L0766: 1, L0389: 1, L0804: 1, L0376: 1, L0527: 1, L0809: 1, L0665: 1, H0144: 1, H0723: 1, H0547: 1, H0519: 1, S0126: 1, H0672: 1, S0330: 1, H0522: 1, H0134: 1, S0037: 1, L0754: 1, L0752: 1, L0755: 1, S0031: 1, H0707: 1, H0667: 1, H0542: 1, H0543: 1 and H0008: 1.					36-64, 76- 92
							AR053: 6, AR055: 6, AR096: 6, AR039: 5, AR052: 4, AR060: 4, AR033: 4, AR089: 4, AR061: 3, AR104: 2 H0271: 21, H0179: 11,					

	H0457: 8, H0584: 6, L0779: 6, H0521: 5, L0766: 4, L0776: 4, L0748: 4, L0777: 4, H0265: 3, H0585: 3, H0529: 3, L0805: 3, L0749: 3, H0556: 2, H0550: 2, H0087: 2, L0662: 2, S0052: 2, L0438: 2, S0126: 2, L0747: 2, L0752: 2, H0543: 2, H0167: 1, S0040: 1, H0294: 1, S0116: 1, H0341: 1, H0638: 1, S0360: 1, H0586: 1, H0497: 1, L0021: 1, H0231: 1, H0544: 1, H0545: 1, H0046: 1, H0123: 1, H0057: 1, H0416: 1, H0687: 1, H0290: 1, H0030: 1, L0455: 1, H0316: 1, H0135: 1, H0040: 1, H0634: 1, H0100: 1, H0560: 1, S0426: 1, L0763: 1, L0770: 1, L0769: 1, L0761: 1, L0800: 1, L0803: 1, L0378: 1, L0806: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, S0428: 1, S0053: 1, S0216: 1, H0520: 1, H0682: 1, H0670: 1, H0518: 1, H0694: 1, H0134: 1, H0576: 1, L0754: 1, L0750: 1,				
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378	HTNBX62	830831	388	897 - 1235	1793	Glu-10 to Arg-21, Arg-31 to Lys-47, Val-58 to Glu-63.	L0755: 1, L0731: 1, L0758: 1, S0031: 1, S0011: 1, H0136: 1, H0423: 1 and H0422: 1. AR052: 36, AR053: 32, AR096: 24, AR089: 16, AR033: 13, AR039: 12, AR055: 12, AR060: 10, AR104: 10, AR061: 5 S0358: 9, S0380: 2, H0656: 1, S0418: 1, H0580: 1, H0587: 1, H0632: 1, H0581: 1, H0046: 1, H0024: 1, S0003: 1, T0023: 1, H0388: 1, T0067: 1, H0561: 1, H0641: 1, H0529: 1, H0651: 1, S0152: 1, H0522: 1, L0747: 1, L0779: 1, L0777: 1, L0752: 1, H0445: 1 and H0422: 1.				92-113, 72-88
379	HLICA76	831204	389	154 - 1320	1794		AR096: 3, AR053: 1, AR052: 1, AR089: 1, AR060: 1, AR033: 1, AR039: 0, AR061: 0, AR104: 0, AR055: 0 L0439: 11, L0777: 10, L0803: 9, L0794: 6, L0766: 6, L0438: 6, S0358: 4, L0764: 3, L0809: 3, L0789: 4				131-147, 185-201, 113-129

380	HAPOA59	831307	390	354 - 935	1795	Phe-19 to Arg-27, Pro-46 to Phe-54, Ser-85 to Leu-91, Arg-115 to Thr-122.	3, L0748: 3, L0740: 3, H0355: 2, L0435: 2, L0775: 2, L0530: 2, S0380: 2, L0747: 2, L0756: 2, L0758: 2, L0588: 2, L0362: 2, H0171: 1, H0556: 1, H0713: 1, H0583: 1, L0418: 1, S0282: 1, S0354: 1, S0376: 1, S0444: 1, S0360: 1, S0278: 1, T0040: 1, H0069: 1, H0120: 1, H0581: 1, H0046: 1, H0024: 1, H0510: 1, S6028: 1, H0615: 1, H0428: 1, L0483: 1, H0038: 1, H0413: 1, S0438: 1, S0426: 1, L0796: 1, L0646: 1, L0645: 1, L0767: 1, L0768: 1, L0650: 1, L0375: 1, L0776: 1, L0659: 1, L4559: 1, L0665: 1, S0374: 1, H0547: 1, H0519: 1, H0672: 1, H0710: 1, S0044: 1, S0406: 1, L0750: 1, L0779: 1, L0755: 1, L0731: 1, S0026: 1, H0216: 1, H0542: 1 and S0424: 1.				128-144
						AR055: 10, AR052: 9, AR060: 8, AR053: 8, AR033: 7, AR061: 7, AR096: 6, AR089: 6,					



381	HLMX3 7	831314	391	112 - 450	1796	Arg-13 to Gln-20.	AR104: 4, AR039: 4 L0766: 4, L0438: 4, H0013: 3, H0575: 3, H0050: 3, H0616: 3, S0126: 3, L0439: 3, L0757: 3, L0758: 3, H0556: 2, H0341: 2, T0110: 2, H0572: 2, L0770: 2, L0803: 2, L0759: 2, S0420: 1, S0360: 1, S0408: 1, S0132: 1, H0619: 1, S0616: 1, T0109: 1, H0318: 1, H0266: 1, S0250: 1, H0615: 1, H0428: 1, H0039: 1, S0036: 1, H0135: 1, H0591: 1, H0038: 1, H0040: 1, H0056: 1, T0041: 1, H0560: 1, L0769: 1, L0637: 1, L0794: 1, L0804: 1, L0666: 1, L0664: 1, H0144: 1, H0520: 1, H0519: 1, H0648: 1, H0539: 1, S0152: 1, H0696: 1, S0406: 1, H0540: 1, L0748: 1, L0740: 1, L0747: 1, L0756: 1, L0752: 1, L0592: 1, L0581: 1, L0593: 1, L0096: 1 and H0423: 1.					58-79
							AR055: 10, AR033: 6, AR052: 6, AR096: 5, AR060: 5, AR053: 5,					

382	HWLHW6 4	831475	392	115 - 990	1797	Lys-113 to Thr-119, Asp-156 to Gly-162.	AR061: 5, AR089: 5, AR104: 3, AR039: 2 S0192: 7, L0803: 5, L0800: 4, L0789: 4, L0758: 4, L0804: 3, L0747: 3, H0255: 2, L0764: 2, L0659: 2, L0666: 2, L0754: 2, L0779: 2, S0420: 1, L0617: 1, S0376: 1, H0550: 1, H0618: 1, H0597: 1, H0350: 1, H0266: 1, H0286: 1, H0688: 1, H0622: 1, H0616: 1, H0494: 1, L0761: 1, L0645: 1, L0774: 1, L0656: 1, L0382: 1, L0809: 1, H0684: 1, S0436: 1, L0601: 1 and H0665: 1.	AR052: 10, AR096: 7, AR053: 7, AR033: 7, AR089: 5, AR060: 5, AR104: 3, AR055: 2, AR039: 2, AR061: 2 H0031: 9, L0659: 7, S0358: 5, H0622: 5, H0494: 5, L0743: 4, S0132: 3, H0040: 3, L0800: 3, L0771: 3, S0354: 2, S0408: 2, H0014: 2, L0483: 2, L0764: 2, L0783: 2, L0438: 2, L0587: 2, L0601: 2, S0114:					247-263, 129-145
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383	HHERA41	831577	393	447 - 860	1798	Tyr-14 to Leu-27, Glu-39 to Ser-47.	1, H0661: 1, S0356: 1, S0442: 1, S0360: 1, H0592: 1, H0587: 1, H0036: 1, H0590: 1, H0024: 1, H0510: 1, H0252: 1, H0039: 1, H0553: 1, S0440: 1, L0772: 1, L0646: 1, L0374: 1, L0773: 1, L0766: 1, L0803: 1, L0804: 1, L0774: 1, L0784: 1, L0806: 1, L0653: 1, L0655: 1, S0374: 1, S0328: 1, S3012: 1, L0749: 1, L0731: 1, L0758: 1 and H0677: 1.				102-120, 69-85, 50- 66
							AR096: 5, AR033: 4, AR053: 4, AR104: 4, AR060: 3, AR052: 3, AR055: 3, AR089: 3, AR039: 2, AR061: 2 L0758: 3, S0358: 2, H0521: 2, L0439: 2, S0114: 1, H0341: 1, S0442: 1, H0734: 1, H0411: 1, H0592: 1, S0280: 1, L0021: 1, H0263: 1, S0214: 1, S0438: 1, S0422: 1, L0764: 1, L0766: 1, L0776: 1, L0783: 1, L0809: 1, L0789: 1, L0663: 1, H0696: 1, L0748: 1, L0740: 1, L0745: 1,				

384	HFXJT43	831638	394	10 - 528	1799	Asn-2 to Gly-7, Thr-24 to Ser-29, Pro-65 to Ser-70, Ser-126 to Thr-132, Thr-161 to Leu-166.	L0777: 1, L0755: 1, L0759: 1, L0596: 1 and H0543: 1. AR055: 14, AR053: 13, AR052: 12, AR060: 12, AR033: 10, AR096: 10, AR089: 8, AR061: 7, AR104: 6, AR039: 4 H0596: 4, L0754: 4, H0521: 3, L0439: 3, H0580: 2, H0486: 2, T0010: 2, S0250: 2, H0616: 2, L0740: 2, L0759: 2, H0624: 1, H0171: 1, S0282: 1, S0046: 1, H0485: 1, H0156: 1, H0581: 1, H0051: 1, H0355: 1, S0003: 1, S0214: 1, H0111: 1, H0090: 1, H0264: 1, S0386: 1, L0766: 1, L0651: 1, S0122: 1, H0518: 1, S0152: 1, H0522: 1, L0744: 1, L0777: 1, L0731: 1, L0758: 1, S0436: 1 and S0242: 1.			107-123, 142-158
385	HE8CL14	831872	395	304 - 1671	1800	Gly-37 to Leu-43, Ala-114 to Arg-122.	AR053: 17, AR096: 15, AR052: 14, AR055: 13, AR089: 11, AR060: 10, AR033: 8, AR061: 8, AR104: 7, AR039: 3 L0754: 6, L0766: 4,			122-150, 311-340, 1-34, 46- 65, 289- 309, 223- 243, 18-34

386	HLWFIJ59	832119	396	10 - 1077	1801	Gly-22 to Arg-31, Pro-33 to Pro-40, Ala-44 to Lys-51, Ser-57 to Asp-62, Ser-68 to Lys-95.	S0354: 3, L0764: 3, L0803: 3, L0748: 3, H0638: 2, H0013: 2, H0051: 2, S0002: 2, L0805: 2, L0664: 2, L0777: 2, L0731: 2, L0758: 2, L0759: 2, H0721: 2, H0624: 1, H0171: 1, H0556: 1, H0661: 1, H0486: 1, H0318: 1, H0009: 1, H0570: 1, H0594: 1, S0214: 1, H0169: 1, H0038: 1, H0616: 1, H0561: 1, L0761: 1, L0651: 1, L0790: 1, L0792: 1, H0648: 1, H0672: 1, L0439: 1, L0745: 1, L0779: 1, L0752: 1, L0596: 1, L0599: 1 and L0362: 1.				326-344, 172-188
						AR033: 5, AR089: 4, AR060: 3, AR061: 2, AR096: 1, AR053: 1, AR055: 1, AR052: 0, AR104: 0, AR039: 0 L0439: 8, L0777: 8, L0666: 4, S0010: 3, H0615: 3, L0637: 3, L0659: 3, L0664: 3, H0648: 3, L0748: 3, L0731: 3, S0412: 3, S0132: 2, S0476: 2, S0222: 2, H0497: 2, H0031: 2, L0774: 2, L0665: 2, H0144:					

387	HAJCQ05	832451	397	100 - 885	1802	Pro-70 to Lys-75, Leu-159 to Gln-173, Arg-227 to Glu-235.	2, L0438: 2, L0754: 2, L0757: 2, L0758: 2, S0194: 2, H0171: 1, H0265: 1, H0717: 1, S0110: 1, H0669: 1, S0358: 1, S0300: 1, H0369: 1, H0550: 1, S6016: 1, S0414: 1, H0013: 1, H0427: 1, H0599: 1, H0327: 1, H0123: 1, H0553: 1, H0628: 1, H0032: 1, H0264: 1, H0488: 1, S0438: 1, L0769: 1, L0805: 1, L0809: 1, L0663: 1, S0374: 1, S0148: 1, H0435: 1, H0659: 1, H0670: 1, S0328: 1, S0004: 1, H0696: 1, L0744: 1, L0753: 1, L0755: 1, L0759: 1, S0031: 1, S0434: 1, H0667: 1 and H0506: 1. AR052: 8, AR039: 7, AR033: 7, AR061: 6, AR089: 6, AR096: 6, AR104: 5, AR055: 5, AR053: 4, AR060: 4 H0617: 5, S0418: 4, L0769: 4, L0751: 3, L0731: 3, H0657: 2, H0635: 2, H0618: 2, H0581: 2, H0546: 2, H0606: 2, H0561: 2, L0794: 2, L0439: 2, S0284:					43-62, 120-137, 98-114, 9- 25, 200- 216
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388	HAGHC54	832485	398	208 - 597	1803	Ser-119 to Cys-125.	1, H0265: 1, S0420: 1, S0358: 1, S0046: 1, H0486: 1, H0253: 1, H0318: 1, H0545: 1, H0510: 1, S0314: 1, L0483: 1, H0213: 1, H0551: 1, H0380: 1, H0647: 1, L0644: 1, L0764: 1, L0499: 1, L0655: 1, L0659: 1, L0666: 1, H0698: 1, H0547: 1, H0670: 1, H0672: 1, S3012: 1, L0754: 1, L0745: 1, L0749: 1, L0779: 1, L0758: 1, H0445: 1 and H0543: 1.				45-65, 99- 118
389	HULAY53	832587	399	181 - 516	1804		AR089: 6, AR052: 6, AR060: 6, AR033: 6, AR055: 5, AR096: 4, AR053: 3, AR061: 3, AR104: 2, AR039: 1 L0748: 8, S0346: 2, H0144: 2, L0754: 2, H0656: 1, S0358: 1, S0408: 1, H0331: 1, H0620: 1, L0805: 1, L0531: 1, H0682: 1 and S0424: 1. AR053: 3, AR033: 2, AR055: 2, AR052: 1, AR060: 1, AR061: 0, AR096: 0, AR089: 0,	2			91-107, 74-90

390	HE9DL48	832624	400	9 - 458	1805	Met-1 to Gly-7.	AR039: 0, AR104: 0 AR096: 170, AR052: 156, AR089: 119, AR060: 98, AR053: 72, AR039: 53, AR104: 47, AR033: 42, AR061: 39, AR055: 14 H0144: 2				95-113, 24-40
391	HFKEH50	833067	401	323 - 1603	1806	Ser-107 to Gly-115, Cys-202 to Thr-214, Glu-241 to Gly-248, Thr-265 to Leu-276, Gly-298 to Gly-305, Ala-382 to Gly-389, Thr-402 to Gly-414.	AR089: 3, AR060: 1, AR053: 1, AR033: 1, AR039: 0, AR104: 0, AR096: 0, AR052: 0, AR061: 0, AR055: 0 L0439: 8, L0751: 6, L0747: 6, L0665: 5, L0438: 4, L0779: 4, H0012: 3, L0748: 3, H0620: 2, H0594: 2, H0424: 2, H0553: 2, S0144: 2, L0769: 2, L0771: 2, L0809: 2, H0144: 2, H0593: 2, S0027: 2, L0777: 2, L0758: 2, L0587: 2, H0422: 2, H0171: 1, H0664: 1, H0619: 1, S0222: 1, H0492: 1, H0618: 1, H0581: 1, H0052: 1, H0150: 1, H0024: 1, S0388: 1, S0364: 1, H0135: 1, H0040: 1, L0640: 1, L0761: 1, L0372:				83-103, 223-239



392	HUSXK49	834541	402	966 - 475	1807	Asn-34 to Arg-43, Arg-96 to Phe-102, Phe-106 to Gly-121, Gln-153 to Thr-158.	1, L0773: 1, L0648: 1, L0662: 1, L0766: 1, L0774: 1, L0629: 1, L0666: 1, L0664: 1, H0658: 1, H0521: 1, S3014: 1 and H0543: 1. AR039: 24, AR053: 17, AR052: 17, AR033: 16, AR055: 14, AR089: 13, AR096: 12, AR104: 9, AR060: 9, AR061: 7 L0758: 4, H0014: 1, S0051: 1, H0038: 1, H0413: 1, H0529: 1, L0770: 1, L0769: 1, L0794: 1 and L0752: 1.				52-69, 77- 93
393	HTSFU12	834610	403	73 - 420	1808	Arg-8 to Glu-15, Gln-38 to Gln-43, Thr-50 to Arg-68, Gln-95 to Gln-106.	AR055: 11, AR061: 7, AR096: 7, AR089: 6, AR060: 6, AR052: 6, AR033: 6, AR053: 5, AR039: 1, AR104: 0 L0761: 7, L0747: 6, S0045: 4, L0766: 4, L0755: 4, L0770: 3, S0126: 3, L0731: 3, H0657: 2, H0730: 2, L0623: 2, H0546: 2, H0150: 2, H0012: 2, H0620: 2, H0529: 2, H0739: 1, S6024: 1, T0049: 1, H0381: 1, H0663: 1, H0306: 1,				65-99

394	HELM15	834810	404	978 - 394	1809	Pro-12 to Thr-38, Tyr-86 to Trp-92, Glu-142 to Trp-150.	H0549: 1, S0222: 1, H0586: 1, H0333: 1, H0486: 1, H0599: 1, T0048: 1, H0597: 1, H0544: 1, H0545: 1, H0567: 1, H0571: 1, H0083: 1, H0428: 1, T0006: 1, L0142: 1, H0617: 1, L0055: 1, S0036: 1, H0087: 1, H0412: 1, T0041: 1, S0438: 1, L0763: 1, L5565: 1, L0372: 1, L0803: 1, L0806: 1, L0805: 1, L0776: 1, L0783: 1, L0383: 1, S0296: 1, S0380: 1, H0710: 1, H0528: 1, S0406: 1, H0576: 1, H0631: 1, L0611: 1, S0027: 1, L0757: 1, L0758: 1, L0588: 1, H0423: 1 and H0506: 1. AR055: 15, AR039: 10, AR096: 9, AR089: 8, AR033: 8, AR053: 8, AR052: 7, AR060: 7, AR061: 6, AR104: 6 L0439: 5, L0747: 5, L0731: 4, L0499: 2, L0774: 2, L0805: 2, L0665: 2, L0438: 2, L0743: 2, L0744: 2, L0757: 2, L0759: 2, H0556: 1, H0713: 1, H0583:					54-78
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									1, S0045: 1, H0587: 1, H0486: 1, H0599: 1, H0581: 1, H0530: 1, H0544: 1, H0163: 1, H0090: 1, H0100: 1, L0770: 1, L5566: 1, L0364: 1, L0649: 1, L0803: 1, L0659: 1, L0809: 1, L0789: 1, L0352: 1, S0380: 1, L0749: 1, L0750: 1, L0758: 1, L0581: 1 and H0667: 1.			
395	HTEJP13	834931	405	665 - 1147	1810	Pro-17 to Pro-23, Arg-40 to Tyr-50, Arg-143 to Ala-154.			AR053: 23, AR052: 20, AR096: 18, AR055: 16, AR060: 13, AR089: 13, AR104: 9, AR061: 9, AR033: 9, AR039: 7 H0616: 3, L0758: 3, L0717: 1, H0038: 1 and L0779: 1.			65-102, 85-102
396	HDQHB46	835271	406	174 - 698	1811	Asp-9 to Asn-21, Pro-24 to Ser-38, Thr-54 to Tyr-61, Asp-126 to Asn-131, Asp-133 to Asp-138, Cys-167 to Ile-175.			AR096: 5, AR052: 3, AR089: 3, AR033: 2, AR053: 2, AR060: 2, AR039: 2, AR055: 1, AR061: 1, AR104: 0 H0641: 10, H0521: 10, H0575: 6, L0599: 6, H0638: 4, H0435: 3, L0758: 3, L0600: 3, H0616: 2, H0413: 2, H0423: 2, T0049: 1,	3		136-162

397	HCETE50	835488	407	158 - 595	1812				H0657: 1, H0580: 1, H0486: 1, H0042: 1, H0123: 1, H0375: 1, H0031: 1, H0038: 1, H0412: 1, H0652: 1, L0648: 1, L0794: 1, L0776: 1, L0787: 1, H0518: 1, H0522: 1 and H0707: 1.				101-134, 22-38, 124-140, 49-65
398	HDTBO48	835717	408	123 - 896	1813				AR033: 8, AR055: 2, AR039: 2, AR061: 2, AR089: 2, AR060: 1, AR096: 1, AR104: 1, AR052: 0, AR053: 0 L0439: 25, L0438: 5, L0742: 5, S0010: 4, S0412: 2, S0222: 1, H0592: 1, H0013: 1, H0156: 1, H0194: 1, H0178: 1, H0024: 1, S0051: 1, T0010: 1, L0455: 1, S0036: 1, L0371: 1, L0794: 1, L0809: 1, H0547: 1, H0539: 1 and L0786: 1.				180-214
399	HODGL01	835896	409	813 - 172	1814	Trp-6 to Ala-14, Ala-33 to Gly-43,			AR053: 67, AR052: 49, AR096: 48, AR089: 35, AR039: 25, AR060: 22, AR104: 20, AR033: 16, AR055: 8, AR061: 6 H0486: 2				154-190, 123-141

				Ttp-68 to His-73.	AR033: 3, AR052: 3, AR089: 3, AR039: 3, AR096: 2, AR104: 1 H0250: 9, H0271: 7, L0743: 6, L0751: 6, L0745: 6, S0360: 5, H0265: 4, L0666: 4, H0521: 4, H0556: 3, H0716: 3, S0280: 3, L0662: 3, H0713: 2, H0662: 2, S0278: 2, H0486: 2, H0615: 2, L0805: 2, L0655: 2, L0664: 2, H0672: 2, S0378: 2, L0746: 2, S0434: 2, L0581: 2, S0196: 2, H0650: 1, H0656: 1, S0116: 1, S0420: 1, S0444: 1, H0580: 1, H0619: 1, S6022: 1, H0635: 1, H0427: 1, L0021: 1, H0253: 1, S0474: 1, H0457: 1, H0355: 1, S0334: 1, H0286: 1, S0312: 1, H0252: 1, H0032: 1, H0634: 1, H0063: 1, H0551: 1, S0440: 1, H0649: 1, L0771: 1, L0649: 1, L0803: 1, L0774: 1, L0806: 1, L0636: 1, L0791: 1, L0793: 1, L0665: 1, H0690: 1, H0670: 1, H0660: 1, H0648: 1, H0518: 1, S0174: 1.		
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400	HE8TO35	835965	410	1710 - 2150	1815	Pro-45 to Gln-55.	<p>H0555: 1, H0436: 1, S0032: 1, L0744: 1, H0343: 1, L0584: 1, S0242: 1, H0422: 1 and H0506: 1.</p> <p>AR061: 3, AR096: 2, AR055: 2, AR060: 2, AR104: 2, AR033: 1, AR053: 1, AR089: 1, AR052: 1, AR039: 0</p> <p>H0046: 2, H0009: 2, H0090: 2, H0494: 2, L0438: 2, H0547: 2, H0521: 2, L0439: 2, L0777: 2, H0543: 2, H0556: 1, S0342: 1, S0045: 1, H0619: 1, H0632: 1, H0013: 1, H0156: 1, L0021: 1, H0575: 1, H0318: 1, S0003: 1, L0483: 1, H0628: 1, H0623: 1, H0561: 1, L0761: 1, L0803: 1, L0804: 1, L0659: 1, L0382: 1, H0144: 1, H0539: 1, S0152: 1, H0478: 1, H0631: 1, L0741: 1, L0740: 1 and L0591: 1.</p>				117-133, 90-106
401	HOHCB06	836191	411	17 - 619	1816		<p>AR096: 1, AR039: 1, AR052: 1, AR104: 1, AR061: 1, AR089: 1, AR055: 1, AR053: 0,</p>				143-176

										AR060: 0, AR033: 0 L0744: 8, L0777: 8, L0749: 6, S0126: 4, S0358: 3, H0622: 3, L0805: 3, H0519: 3, H0624: 2, S0476: 2, L0717: 2, H0486: 2, H0012: 2, S0250: 2, L0662: 2, L0803: 2, L0659: 2, L0519: 2, L0663: 2, L0438: 2, H0520: 2, H0435: 2, L0751: 2, L0747: 2, L0759: 2, H0685: 1, S0212: 1, S0442: 1, H0729: 1, H0550: 1, H0013: 1, S0280: 1, H0599: 1, H0575: 1, H0123: 1, L0471: 1, H0057: 1, H0266: 1, H0687: 1, H0292: 1, H0688: 1, H0030: 1, H0644: 1, T0041: 1, L0770: 1, L0771: 1, L0768: 1, L0774: 1, L0655: 1, L0661: 1, L0665: 1, H0724: 1, H0547: 1, S0330: 1, H0539: 1, H0518: 1, S0152: 1, H0555: 1, S0390: 1, L0748: 1, L0439: 1, L0740: 1, L0779: 1, L0755: 1, L0731: 1, H0595: 1, L0591: 1, L0593: 1, S0192: 1 and S0196: 1.
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402	H2CBN10	836762	412	173 - 1075	1817	Arg-195 to Phe-203, Ser-258 to Thr-264.	AR033: 380, AR061: 335, AR060: 243, AR104: 243, AR055: 238, AR096: 231, AR089: 178, AR053: 132, AR052: 131, AR039: 122 L0750: 2, H0580: 1, S0010: 1, T0110: 1, H0457: 1, H0436: 1, L0779: 1, L0752: 1 and H0543: 1.			116-138, 202-226, 49-67, 148-166, 270-286, 174-190, 99-115, 22-38, 1- 17, 78-94
403	HBJNB08	836997	413	130 - 1266	1818	Tyr-20 to Asn-26, Ala-37 to Ser-46, Thr-99 to Glu-105, Cys-163 to Arg-171, Tyr-204 to Leu-215, His-279 to Phe-285, Ala-334 to Ala-349, Ala-363 to Gly-379.	AR033: 2, AR053: 2, AR089: 2, AR060: 2, AR052: 1, AR096: 1, AR039: 1, AR061: 1, AR055: 0 L0750: 8, H0318: 6, L0764: 6, S0002: 5, L0771: 5, L0665: 5, L0438: 5, L0747: 5, S0442: 4, H0046: 4, L0655: 4, L0809: 4, L0666: 4, L0740: 4, S0356: 3, S0444: 3, H0486: 3, L0646: 3, L0794: 3, L0766: 3, S0360: 2, H0036: 2, S0426: 2, L0372: 2, L0773: 2, L0776: 2, L0659: 2, L0663: 2, H0519: 2, H0555: 2, L0777: 2, S0436: 2, L0596: 2, L0591: 2, L0362: 2, H0542: 2, H0506: 2, S0212: 1, S0045: 1, H0575:			301-328, 288-304



404	HHAMF80	837474	414	110 - 427	1819	Ser-3 to Gly-12, Ala-16 to Arg-28, Lys-62 to Leu-68.	AR096: 1, AR089: 1, AR104: 1, AR033: 1, AR061: 1, AR060: 0, AR053: 0, AR052: 0, AR055: 0, AR039: 0 H0599: 2, L0663: 2, S0136: 2, L0740: 2, S0418: 1, H0550: 1, H0592: 1, H0587: 1, H0373: 1, H0090: 1, S0422: 1, L0763: 1, S0052: 1, S0013: 1, H0696:	1, H0590: 1, S0010: 1, S0346: 1, H0705: 1, H0581: 1, H0052: 1, T0110: 1, H0597: 1, H0239: 1, H0622: 1, H0644: 1, H0674: 1, H0163: 1, H0591: 1, H0038: 1, H0087: 1, H0100: 1, S0448: 1, S0440: 1, S0142: 1, H0529: 1, L0763: 1, L0804: 1, L0775: 1, L0651: 1, L0806: 1, L0805: 1, L0783: 1, L0790: 1, L0791: 1, L0664: 1, H0701: 1, H0593: 1, H0670: 1, H0539: 1, S0406: 1, S3012: 1, S0028: 1, L0439: 1, L0751: 1, L0755: 1, H0445: 1, S0434: 1, H0423: 1 and S0424: 1.				41-57, 77- 98
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405	HDPUR66	837522	415	199 - 771	1820	Gly-10 to Phe-18, Gly-28 to Asp-40.	1, L0749: 1, L0779: 1 and L0485: 1. AR060: 12, AR096: 7, AR039: 5, AR053: 4, AR052: 3, AR033: 3, AR055: 3, AR089: 3, AR104: 3, AR061: 2 S6022: 1, H0486: 1, H0560: 1, L0565: 1 and H0521: 1.				124-143
406	HBWBX66	837523	416	183 - 656	1821	Gln-10 to Arg-16, Leu-31 to Thr-38, Val-49 to Arg-55, Cys-77 to Ser-82, Ser-102 to Ala-107.	AR089: 1, AR053: 1, AR033: 1, AR104: 1, AR061: 0, AR039: 0, AR055: 0, AR096: 0, AR060: 0, AR052: 0 S0386: 2, S0420: 1, H0013: 1, H0457: 1, S0250: 1, S0390: 1, L0596: 1 and H0422: 1.				58-74
407	HMHBR95	837526	417	22 - 531	1822	Leu-14 to Asp-19, Gly-47 to Trp-55, Ser-102 to Ser-107, Asp-136 to Cys-143.	AR104: 6, AR061: 2, AR096: 2, AR060: 1, AR053: 1, AR089: 1, AR033: 0, AR055: 0, AR052: 0 L0745: 12, L0771: 7, L0766: 3, L0746: 3, L0777: 3, L0764: 2, L0775: 2, L0779: 2, L0757: 2, L0404: 1, S0360: 1, H0351: 1,				26-42, 55- 71, 145- 161, 110- 126

408	HEGAU68	837527	418	5 - 388	1823	Gly-24 to Gly-29, Thr-36 to Asp-41, Ala-47 to Pro-52.	H0441: 1, H0069: 1, H0052: 1, H0288: 1, H0286: 1, S0364: 1, H0634: 1, H0264: 1, H0494: 1, H0646: 1, L0772: 1, L0372: 1, L0800: 1, L0803: 1, L0774: 1, L0806: 1, L0788: 1 and H0672: 1. AR089: 11, AR060: 8, AR096: 8, AR033: 6, AR052: 4, AR053: 4, AR039: 4, AR104: 4, AR055: 3, AR061: 3 L0744: 9, L0731: 8, L0439: 7, H0144: 5, L0749: 5, L0748: 4, L0745: 4, L0758: 4, S0040: 3, H0013: 3, H0038: 3, S0344: 3, L0769: 3, L0773: 3, L0755: 3, H0306: 2, S0356: 2, S0358: 2, H0550: 2, H0392: 2, S0280: 2, H0620: 2, T0003: 2, H0598: 2, S0036: 2, H0623: 2, S0002: 2, L0662: 2, L0768: 2, L0561: 2, L0775: 2, L0776: 2, L0527: 2, L0783: 2, L0438: 2, S0126: 2, H0539: 2, S0152: 2, H0521: 2, S3014: 2, L0754: 2, L0747: 2				82-99
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	L0780: 2, L0752: 2, L0757: 2, L0591: 2, L0608: 2, L0362: 2, L0361: 2, L0601: 2, L0603: 2, H0170: 1, H0265: 1, H0556: 1, T0002: 1, S0114: 1, L0427: 1, S0116: 1, S0282: 1, H0402: 1, S0420: 1, S0354: 1, S0376: 1, S0360: 1, H0208: 1, S0045: 1, S0132: 1, S0476: 1, S0278: 1, H0549: 1, S0222: 1, S6014: 1, H0441: 1, H0438: 1, H0497: 1, H0333: 1, H0069: 1, L0021: 1, H0618: 1, S0010: 1, H0421: 1, H0251: 1, H0085: 1, H0327: 1, H0150: 1, H0178: 1, H0050: 1, H0024: 1, H0051: 1, H0375: 1, H0594: 1, H0188: 1, H0687: 1, S0022: 1, H0252: 1, H0615: 1, H0428: 1, H0622: 1, H0031: 1, H0644: 1, H0673: 1, H0674: 1, H0135: 1, H0163: 1, H0634: 1, H0087: 1, H0412: 1, H0056: 1, S0038: 1, H0100: 1, T0041: 1, H0429: 1, S0450: 1, S0142: 1, S0426: 1, H0529: 1, I0763: 1					
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409	HMEAD61	837597	419	107 - 1093	1824	Phe-80 to Gly-85, Glu-148 to Trp-157.	L0770: 1, L0796: 1, L0761: 1, L0667: 1, L0646: 1, L0764: 1, L0771: 1, L0766: 1, L0375: 1, L0655: 1, L0657: 1, L0659: 1, L0517: 1, L0383: 1, L0382: 1, L0543: 1, L0666: 1, L0664: 1, H0703: 1, S0374: 1, H0520: 1, H0519: 1, H0689: 1, H0682: 1, H0659: 1, H0658: 1, S0328: 1, S0404: 1, S0406: 1, S0027: 1, L0740: 1, L0746: 1, L0750: 1, L0759: 1, H0445: 1, L0480: 1, L0584: 1, S0242: 1, S0276: 1, H0543: 1, H0423: 1, H0422: 1, S0446: 1, L0600: 1 and H0352: 1.					234-252, 18-34
						AR053: 15, AR096: 15, AR089: 12, AR052: 12, AR104: 9, AR060: 8, AR033: 7, AR039: 6, AR055: 6, AR061: 4 L0766: 5, L0439: 4, L0754: 4, L0758: 4, H0656: 3, H0031: 3, H0038: 3, H0657: 2, S0029: 2, S0222: 2, H0455: 2, H0618: 2, H0081: 2, H0617: 2, T0042: 2, S0210: 2, H0529: 2,						

410	HDTDF94	837726	420	61 - 477	1825	Pro-20 to Ser-28, Gly-59 to Leu-69, Tyr-101 to Ile-106.	L0769: 2, L0662: 2, L0665: 2, L0747: 2, L0777: 2, H0445: 2, H0543: 2, H0170: 1, H0394: 1, H0556: 1, T0002: 1, H0662: 1, S0046: 1, L0717: 1, H0392: 1, H0497: 1, H0253: 1, H0318: 1, H0544: 1, H0178: 1, L0157: 1, L0471: 1, H0051: 1, T0010: 1, H0408: 1, H0266: 1, H0188: 1, H0290: 1, S0022: 1, H0135: 1, H0090: 1, H0040: 1, H0634: 1, H0494: 1, S0448: 1, H0641: 1, S0142: 1, S0344: 1, L0770: 1, L0637: 1, L0771: 1, L0521: 1, L0768: 1, L0803: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0629: 1, L0659: 1, L0791: 1, L0663: 1, L0664: 1, H0519: 1, H0682: 1, H0539: 1, H0521: 1, H0522: 1, H0134: 1, H0214: 1, L0779: 1, H0667: 1, H0542: 1, H0423: 1 and H0422: 1. AR096: 5, AR061: 4, AR039: 3, AR033: 3, AR053: 3, AR060: 3, AR055: 3, AR052: 3,					74-97, 29- 56
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411	HKAJL51	837785	421	22 - 351	1826	Glu-2 to Ala-19, Leu-23 to Gln-40.	AR089: 2, AR104: 2 L0748: 5, H0024: 2, L0439: 2, H0662: 1, S0420: 1, S0132: 1, H0431: 1, H0586: 1, H0486: 1, H0013: 1, H0575: 1, L0518: 1, H0539: 1, H0521: 1, S0242: 1 and S0194: 1. AR096: 2, AR055: 1, AR089: 1, AR033: 1, AR060: 1, AR052: 1, AR061: 1, AR039: 0, AR053: 0 L0754: 118, L0748: 42, H0553: 29, L0757: 15, L0755: 13, L0603: 11, H0030: 10, H0031: 10, H0644: 6, L0740: 6, L0142: 5, H0100: 5, L0731: 4, L0005: 3, H0551: 2, H0494: 2, L0439: 2, L0747: 2, L0749: 2, L0780: 2, S0242: 2, H0657: 1, S0418: 1, H0053: 1, H0036: 1, H0546: 1, L0471: 1, H0051: 1, H0328: 1, H0615: 1, L0143: 1, H0111: 1, H0413: 1, L0666: 1, L0663: 1, H0518: 1, S0332: 1, S0454: 1, H0704: 1, H0555: 1, L0756:				71-87, 46-62
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412	HODGZ47	837858	422	419 - 1024	1827	Ser-88 to Leu-95, Ser-99 to Ser-106, Pro-134 to His-140.	1, L0601: 1, S0011: 1 and H0136: 1. AR096: 3, AR061: 2, AR033: 2, AR089: 1, AR060: 1, AR052: 1, AR053: 0, AR039: 0, AR055: 0, AR104: 0 H0615: 2, H0040: 1, H0272: 1 and H0436: 1.				163-193, 21-56, 9- 26, 59-77, 183-199
413	HTJMQ74	838145	423	172 - 1044	1828	Met-1 to Gly-7, Cys-47 to Arg-52, Asp-97 to His-102, Asn-280 to Met-291.	AR039: 4, AR096: 3, AR052: 3, AR053: 3, AR089: 3, AR033: 2, AR055: 2, AR061: 2, AR104: 2, AR060: 1 H0586: 6, L0777: 5, H0661: 3, S0476: 2, H0592: 2, H0587: 2, H0494: 2, S0001: 1, H0486: 1, H0013: 1, S0280: 1, H0251: 1, L0738: 1, S0214: 1, H0488: 1, L0369: 1, L0770: 1, L0637: 1, L0772: 1, L0659: 1, L0647: 1, L0666: 1, H0724: 1, H0519: 1, H0682: 1, S0027: 1, S0028: 1, S0206: 1, L0747: 1, L0755: 1 and H0595: 1.				161-190, 232-254, 111-138, 200-216, 66-82, 137-153, 26-42
414	HOHCE56	838619	424	544 - 1812	1829	Ser-4 to Asn-10, Pro-29 to Cys-38,	AR033: 1, AR096: 1, AR104: 1, AR089: 0,				75-92



Pro-64 to Thr-70, Glu-95 to Tyr-100, Lys-106 to Arg-115, Thr-139 to Ser-146, Arg-160 to Glu-166, Gly-205 to Gly-218, Ser-252 to Leu-258, Gly-278 to Thr-288, Gln-340 to Phe-350, Ser-378 to Gly-391, Gly-398 to Arg-423.	AR061: 0, AR055: 0, AR039: 0, AR060: 0, AR053: 0 L0743: 9, H0620: 8, L0754: 8, L0731: 8, L0742: 7, S0126: 6, H0486: 5, H0012: 4, S0250: 4, L0747: 4, H0051: 3, H0039: 3, L0770: 3, L0654: 3, L0780: 3, S0040: 2, H0294: 2, L0149: 2, H0586: 2, H0253: 2, H0052: 2, H0545: 2, H0050: 2, H0024: 2, H0622: 2, H0124: 2, S0036: 2, H0135: 2, S0112: 2, H0494: 2, L0662: 2, L0806: 2, L0659: 2, H0689: 2, H0435: 2, L0741: 2, L0740: 2, L0751: 2, L0779: 2, L0777: 2, L0752: 2, L0755: 2, L0366: 2, S0192: 2, H0624: 1, S6024: 1, H0295: 1, H0484: 1, S0420: 1, L0619: 1, S0356: 1, H0208: 1, S0046: 1, S0300: 1, H0351: 1, H0549: 1, H0455: 1, H0333: 1, H0575: 1, H0544: 1, H0123: 1, H0081: 1, S0050: 1, S0051: 1, H0594: 1, S0022: 1, H0551: 1
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415	HLJB145	838808	425	309 - 644	1830	Ser-56 to Asn-61.	<p>H0059: 1, H0100: 1, S0002: 1, L0763: 1, L5575: 1, L0772: 1, L0646: 1, L0771: 1, L0803: 1, L0636: 1, L0647: 1, L0787: 1, L0793: 1, L0666: 1, L0665: 1, H0726: 1, H0547: 1, H0593: 1, S0044: 1, S0390: 1, S3014: 1, S0027: 1, S0028: 1, S0032: 1, L0750: 1, L0756: 1, L0757: 1, L0758: 1, L0592: 1 and L0603: 1.</p> <p>AR089: 20, AR052: 14, AR033: 14, AR060: 11, AR096: 9, AR053: 9, AR055: 7, AR104: 7, AR061: 5, AR039: 5, S0358: 5, H0521: 4, S0418: 3, S0126: 3, H0658: 3, L0748: 3, L0740: 2, L0750: 2, S0040: 1, H0294: 1, H0228: 1, H0393: 1, H0357: 1, H0586: 1, H0490: 1, H0486: 1, H0013: 1, H0427: 1, H0098: 1, H0575: 1, S0010: 1, T0048: 1, H0581: 1, S0049: 1, L0471: 1, H0375: 1, H0266: 1, H0328: 1, H0688: 1, H0428: 1, H0039: 1, H0169: 1,</p>	2p22-p21	<p>120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300, 601071, 601771, 602134</p>	<p>88-107, 34-50, 61- 77, 13-29</p>	
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416	HSHCL04	838860	426	661 - 1014	1831	Arg-31 to Asn-36.	H0135: 1, H0372: 1, H0494: 1, H0560: 1, H0633: 1, S0144: 1, H0529: 1, L0654: 1, H0520: 1, H0435: 1, H0660: 1, S0330: 1, L0602: 1, L0439: 1, L0731: 1, H0668: 1, H0665: 1 and H0542: 1.				1-24, 61- 88, 53-70, 35-51
417	HBJBR52	839006	427	349 - 1170	1832	Met-1 to Gly-7, Ala-45 to Gly-53, Leu-76 to Phe-84, Lys-135 to Thr-141.	AR096: 8, AR089: 6, AR060: 5, AR052: 5, AR053: 5, AR033: 4, AR055: 4, AR039: 3, AR061: 3, AR104: 2 S0053: 2, H0171: 1 and S0037: 1. AR053: 1, AR104: 1, AR033: 1, AR060: 1, AR089: 0, AR096: 0, AR061: 0, AR052: 0, AR039: 0, AR055: 0 L0766: 7, L0758: 3, L0759: 3, H0038: 2, H0560: 2, L0804: 2, L0775: 2, L0751: 2, L0779: 2, L0595: 2, H0656: 1, S0212: 1, H0664: 1, S0354: 1, L0011: 1, H0156: 1, H0599: 1, S0346: 1, H0581: 1, H0673: 1, H0591: 1, H0413: 1,				140-158, 22-38, 237-254, 105-121, 210-226

418	HSLEK65	839237	428	53 - 730	1833	Thr-184 to Phe-190, Thr-219 to Ser-226.	H0623: 1, S0038: 1, L0370: 1, H0561: 1, S0422: 1, L0770: 1, L0772: 1, L0642: 1, L0803: 1, L0774: 1, L0656: 1, L0663: 1, S0428: 1, H0519: 1, S0330: 1, H0539: 1, H0521: 1, H0555: 1, H0576: 1, L0588: 1, L0605: 1 and H0667: 1.				1-25, 35- 56, 188- 210, 85- 107, 155- 171, 61-77
							AR033: 2, AR104: 1, AR055: 1, AR060: 1, AR052: 1, AR096: 1, AR089: 1, AR061: 1, AR053: 1, AR039: 0 S0278: 13, S0144: 12, S0142: 9, H0521: 8, S0222: 6, S0282: 5, H0638: 5, S0344: 5, S0028: 5, L0731: 5, S0001: 4, S0045: 3, S0049: 3, L0755: 3, S0031: 3, H0351: 2, S0051: 2, H0100: 2, S0428: 2, L0756: 2, H0624: 1, H0716: 1, H0455: 1, H0333: 1, H0575: 1, H0052: 1, H0041: 1, H0009: 1, N0006: 1, T0010: 1, H0375: 1, S6028: 1, H0416: 1, H0617: 1, H0606: 1, H0068: 1, S0036: 1, S0112: 1, S0438: 1, S0440:				

419	HWGAF42	839272	429	315 - 650	1834	Met-1 to Thr-7, Leu-24 to Glu-31, Gln-34 to Gly-44, Gly-82 to Ser-87, Asp-94 to Leu-99, Ala-102 to Glu-107.	1, S0002: 1, L0763: 1, L0769: 1, L0637: 1, L0806: 1, L0658: 1, L0666: 1, S0126: 1, L0355: 1, S0332: 1, H0522: 1, S0044: 1, S0390: 1, S0436: 1 and L0599: 1.					41-68
							AR033: 29, AR052: 29, AR039: 28, AR053: 26, AR104: 25, AR089: 23, AR096: 19, AR055: 18, AR060: 14, AR061: 12 L0805: 51, L0776: 33, L0439: 31, L0789: 8, L0741: 8, L0438: 7, L0769: 6, L0777: 6, H0052: 5, H0617: 5, L0748: 4, L0750: 4, L0779: 4, L0753: 4, H0424: 3, S0036: 3, L0775: 3, L0809: 3, S0378: 3, S0040: 2, L0103: 2, H0046: 2, H0284: 2, T0006: 2, H0213: 2, S0038: 2, L0351: 2, L0764: 2, L0768: 2, L0794: 2, L0659: 2, H0670: 2, L0602: 2, L0747: 2, L0731: 2, L0758: 2, S0436: 2, L0592: 2, S0342: 1, S0282: 1, S0030: 1, H0484: 1, S0007: 1, S0278: 1					

420	HOUEA63	839547	430	375 - 1598	1835	Ser-10 to Asp-28, Ser-51 to Arg-85, Val-92 to Asn-97, Tyr-123 to Gly-133, Glu-138 to Lys-145, Thr-265 to Gly-276, Thr-303 to Gln-308, Leu-314 to Thr-321, Leu-331 to Thr-339, Lys-347 to Leu-354.	H0261: 1, S0222: 1, H0441: 1, H0156: 1, T0082: 1, H0194: 1, H0231: 1, T0010: 1, S6028: 1, H0271: 1, L0483: 1, H0418: 1, H0181: 1, H0412: 1, S0112: 1, S0370: 1, S0144: 1, S0002: 1, L0520: 1, L0762: 1, L0763: 1, L0638: 1, L0772: 1, L0653: 1, L0636: 1, L0367: 1, L0788: 1, L0791: 1, L0665: 1, L0352: 1, H0672: 1, H0539: 1, S0032: 1, L0742: 1, L0740: 1 and H0667: 1.						177-193
							AR033: 5, AR055: 5, AR089: 4, AR052: 4, AR060: 4, AR096: 4, AR053: 4, AR061: 4, AR104: 2, AR039: 0 H0553: 3, H0494: 3, L0748: 3, H0457: 2, H0031: 2, H0521: 2, S0040: 1, S0218: 1, H0662: 1, S0418: 1, S0354: 1, S0045: 1, H0411: 1, H0549: 1, H0586: 1, H0497: 1, H0331: 1, H0486: 1, H0013: 1, H0036: 1, H0050: 1, S0036: 1, L0370: 1, S0002: 1, L0766:						

421	HLWAW3 6	839561	431	213 - 1133	1836	Ala-4 to Asn-18, Leu-69 to Gln-75, Asp-114 to Pro-119, Ala-153 to Arg-162, Glu-166 to Glu-202, Ala-209 to Ser-244.	1, L0375: 1, H0144: 1, H0659: 1, S0027: 1, L0745: 1, L0599: 1, L0604: 1, H0543: 1 and S0424: 1. AR096: 3, AR033: 2, AR061: 2, AR089: 2, AR053: 2, AR052: 2, AR039: 1, AR055: 1, AR060: 1, AR104: 1 L0748: 15, L0439: 10, H0046: 9, L0758: 8, L0596: 7, L0589: 7, H0013: 6, L0769: 6, L0666: 6, H0556: 5, H0341: 5, S0420: 5, L0766: 5, L0659: 5, H0521: 5, H0575: 4, H0083: 4, H0266: 4, H0553: 4, H0032: 4, H0551: 4, L0771: 4, L0775: 4, L0665: 4, H0518: 4, S0152: 4, L0740: 4, L0751: 4, H0170: 3, H0265: 3, H0657: 3, H0656: 3, S0418: 3, S0358: 3, S0476: 3, H0687: 3, H0628: 3, H0617: 3, H0090: 3, S0150: 3, L0646: 3, L0768: 3, L0776: 3, L0809: 3, L0664: 3, H0144: 3, H0547: 3, H0519: 3, H0711: 3, L0747: 3, L0752: 3, L0759: 3,	15q26.1	166800, 210900	241-268
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H0663: 1, H0664: 1, H0662: 1, H0638: 1, S0356: 1, S0376: 1, S0444: 1, S0408: 1, S0132: 1, H0393: 1, L0717: 1, H0351: 1, S0278: 1, H0261: 1, H0403: 1, H0592: 1, H0586: 1, H0497: 1, H0333: 1, H0632: 1, H0257: 1, H0486: 1, H0250: 1, H0075: 1, H0635: 1, H0036: 1, H0590: 1, H0253: 1, H0421: 1, T0103: 1, T0110: 1, H0327: 1, H0545: 1, H0009: 1, H0123: 1, H0050: 1, H0051: 1, S0051: 1, T0010: 1, H0355: 1, H0188: 1, H0288: 1, S0312: 1, S0314: 1, H0615: 1, H0039: 1, H0622: 1, L0455: 1, S0366: 1, H0598: 1, H0135: 1, H0040: 1, H0413: 1, H0056: 1, H0100: 1, L0435: 1, L0564: 1, H0494: 1, L0475: 1, H0334: 1, H0560: 1, H0641: 1, H0633: 1, H0647: 1, H0646: 1, S0344: 1, S0208: 1, S0210: 1, L0369: 1, L0763: 1, L0770: 1, L0667: 1, L0772: 1, L0372: 1, L0800: 1.
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422	HDPHI63	839704	432	144 - 452	1837	Glu-18 to Phe-29, Thr-36 to Pro-45.	AR096: 10, AR039: 4, AR055: 4, AR033: 4, AR053: 3, AR089: 3, AR104: 3, AR052: 2, AR060: 2, AR061: 2	L0521: 1, L0803: 1, L0650: 1, L0651: 1, L0653: 1, L0783: 1, L0383: 1, L0647: 1, S0428: 1, S0216: 1, S0374: 1, H0724: 1, L0352: 1, H0520: 1, H0365: 1, H0690: 1, H0435: 1, H0555: 1, H0187: 1, H0436: 1, H0627: 1, S3012: 1, S0037: 1, S0032: 1, L0743: 1, L0744: 1, L0749: 1, L0756: 1, L0779: 1, L0755: 1, L0757: 1, S0031: 1, H0595: 1, S0434: 1, S0436: 1, L0591: 1, L0599: 1, L0604: 1, L0593: 1, L0595: 1, L0601: 1, S0026: 1 and S0384: 1.					
423	HTEPM45	839875	433	132 - 1229	1838	Leu-3 to Leu-16, Leu-48 to Phe-58, Gly-113 to Lys-121, Arg-136 to Phe-147, Pro-326 to Ser-346.	AR096: 14, AR089: 10, AR060: 6, AR061: 6, AR055: 5, AR039: 5, AR052: 4, AR033: 3, AR053: 2, AR104: 2	134570, 601090, 602028	6p25-p24				88-106, 246-262, 63-79, 169-185

					H0486: 102, S0360: 76, L0598: 39, H0251: 35, L0659: 32, H0144: 32, H0013: 31, H0624: 28, H0024: 26, H0050: 25, L0471: 25, L0662: 22, L0748: 22, H0619: 20, H0123: 20, S0003: 18, H0031: 15, H0170: 14, H0124: 14, H0328: 13, L0750: 13, H0644: 12, S0126: 12, S0028: 11, L0757: 11, S0196: 11, H0587: 10, S0214: 10, L0589: 10, S0040: 9, H0622: 9, L0731: 9, H0171: 8, S0356: 8, L0717: 8, H0586: 8, H0620: 8, H0252: 8, H0551: 8, H0352: 8, H0661: 7, H0081: 7, L0747: 7, L0755: 7, S0358: 6, H0598: 6, L0646: 6, L0771: 6, S3014: 6, H0343: 6, H0595: 6, S0212: 5, H0329: 5, H0208: 5, H0574: 5, H0316: 5, H0100: 5, L0666: 5, L0565: 5, H0658: 5, S0390: 5, S0027: 5, S0011: 5, S0192: 5, S0194: 5, S0376: 4, H0575: 4, H0039:	
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424	HTEBP06	839885	434	156 - 1244	1839	Met-1 to Ser-12, Asn-23 to Thr-33, Asn-35 to Gly-42, Pro-46 to Asp-51, Arg-86 to Asp-92, Ile-98 to Gly-108, Tyr-111 to Phe-128, Asn-140 to Cys-146, Gly-151 to Lys-182, Gly-190 to Ala-196, Leu-200 to Gln-212, Ile-217 to Lys-224,	H0428: 1, T0023: 1, L0143: 1, H0111: 1, H0163: 1, H0591: 1, H0038: 1, H0616: 1, H0058: 1, T0069: 1, H0080: 1, L0351: 1, L0564: 1, H0646: 1, H0654: 1, S0208: 1, L0763: 1, L0373: 1, L0764: 1, L0773: 1, L0648: 1, L0521: 1, L0767: 1, L0522: 1, L0775: 1, L0806: 1, L0607: 1, L0512: 1, L0634: 1, L0526: 1, L0783: 1, L0367: 1, H0547: 1, H0682: 1, H0659: 1, H0660: 1, H0666: 1, S0118: 1, S0037: 1, H0445: 1, L0590: 1, L0603: 1, H0665: 1, H0667: 1 and S0446: 1.			259-276
						AR104: 874, AR060: 684, AR055: 616, AR033: 568, AR061: 555, AR039: 520, AR089: 289, AR096: 146, AR052: 115, AR053: 114 H0038: 8, H0616: 6, L0758: 4, L0794: 3, H0545: 2, H0040: 1, L0768: 1 and L0790: 1.				

425	HSKYK23	839888	435	204 - 869	1840	Val-316 to Asn-324. Asn-19 to Pro-28, Ile-45 to Tyr-52.	AR039: 19, AR052: 17, AR055: 17, AR053: 16, AR089: 15, AR096: 13, AR060: 13, AR104: 12, AR033: 10, AR061: 8 L0794: 7, S0152: 6, L0750: 6, L0777: 6, L0803: 4, L0748: 4, L0731: 4, L0757: 4, L0759: 4, L0804: 3, L0659: 3, L0752: 3, S0358: 2, S0444: 2, S0360: 2, S0045: 2, L0766: 2, L0751: 2, L0756: 2, S0031: 2, L0588: 2, H0663: 1, S0442: 1, H0580: 1, S0046: 1, H0393: 1, H0486: 1, H0575: 1, H0318: 1, H0041: 1, H0123: 1, H0375: 1, H0687: 1, S0003: 1, H0031: 1, S0144: 1, H0529: 1, L0763: 1, L0662: 1, L0774: 1, L0775: 1, L0806: 1, L0518: 1, L0789: 1, L0663: 1, H0672: 1, S0380: 1, H0521: 1, H0694: 1, S0406: 1, S0206: 1, L0740: 1, L0779: 1, L0755: 1, S0242: 1 and S0424: 1.				132-148
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426	HBUAD85	839958	436	117 - 953	1841	<p>Trp-10 to Gly-16, Ser-19 to Asp-31, Ser-46 to Lys-53, Pro-60 to Ile-78, Ser-85 to Leu-91, Leu-146 to Lys-154, Trp-237 to Arg-246.</p>	<p>AR052: 14, AR053: 8, AR033: 7, AR055: 7, AR104: 7, AR060: 5, AR096: 5, AR089: 4, AR061: 4, AR039: 1 L0777: 8, L0794: 7, L0803: 4, L0748: 4, L0749: 4, L0789: 3, L0759: 3, S0360: 2, H0644: 2, S0422: 2, L0770: 2, L0800: 2, L0766: 2, L0804: 2, L0740: 2, L0750: 2, L0779: 2, L0752: 2, L0755: 2, L0731: 2, L0758: 2, L0595: 2, S0116: 1, S0442: 1, H0729: 1, H0733: 1, S0300: 1, L0021: 1, H0575: 1, H0122: 1, S0182: 1, H0569: 1, H0090: 1, H0038: 1, H0412: 1, S0440: 1, L0371: 1, L0769: 1, L0761: 1, L0764: 1, L0771: 1, L0521: 1, L0768: 1, L5574: 1, L0783: 1, L0382: 1, L0809: 1, L0790: 1, L0663: 1, H0520: 1, H0547: 1, H0659: 1, H0522: 1, H0134: 1, H0436: 1, H0626: 1, L0747: 1, L0753: 1, L0757: 1, H0444: 1, S0436: 1, S0194: 1,</p>			154-171
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427	HCE1N85	840000	437	777 - 1880	1842	Leu-14 to Pro-22, Pro-127 to Pro-134, Ala-140 to Arg-145, Ser-189 to Gln-203, Leu-273 to Tyr-278.	S0276: 1, H0543: 1 and H0423: 1. AR089: 1, AR060: 1, AR039: 0, AR104: 0, AR055: 0, AR053: 0, AR061: 0, AR096: 0, AR033: 0				86-105
428	HROAX39	840008	438	30 - 341	1843	Leu-38 to Trp-43, Ala-72 to Thr-77.	AR039: 35, AR055: 23, AR033: 19, AR052: 18, AR053: 17, AR089: 15, AR060: 12, AR096: 12, AR104: 11, AR061: 10 H0068: 2, H0619: 1, H0632: 1, L0471: 1, H0033: 1, H0124: 1, H0316: 1, L0747: 1 and H0136: 1.				46-65
429	HHETF37	840056	439	84 - 383	1844	Ala-12 to Glu-17, Gly-29 to Arg-35, Leu-62 to Trp-68.	AR096: 5, AR052: 2, AR089: 2, AR033: 2, AR061: 2, AR060: 1, AR104: 1, AR055: 1, AR053: 0, AR039: 0 H0436: 2, S0354: 1, L0775: 1, L0658: 1, H0445: 1, H0543: 1 and H0422: 1.				67-87
430	HKAAS52	840160	440	40 - 873	1845	Met-1 to Ala-13, Cys-38 to Ile-43, Arg-65 to Leu-70, Tyr-185 to Leu-192,	AR052: 4, AR033: 3, AR053: 3, AR089: 3, AR060: 2, AR096: 2, AR055: 2, AR061: 1,				71-88



431	HISES36	840222	441	136 - 747	1846	Lys-217 to Thr-226.	AR039: 0, AR104: 0 H0494: 3, H0559: 2, H0547: 2, L0740: 2, H0423: 2, H0265: 1, H0662: 1, S0348: 1, S0418: 1, H0370: 1, H0492: 1, H0318: 1, H0052: 1, H0194: 1, H0050: 1, H0006: 1, H0266: 1, L0351: 1, L0766: 1, L0655: 1, S0310: 1, H0689: 1, S0152: 1, H0522: 1, H0543: 1 and H0422: 1.			
						Ser-4 to Arg-13, Pro-15 to Trp-22.	AR039: 18, AR033: 12, AR104: 12, AR053: 9, AR052: 9, AR096: 9, AR055: 8, AR089: 8, AR060: 5, AR061: 5 L0741: 3, H0619: 2, T0010: 2, H0539: 2, H0717: 1, L0438: 1, H0435: 1, H0670: 1, H0521: 1, S0436: 1 and H0542: 1.			113-143, 62-81
432	HAPBL12	840579	442	215 - 1549	1847	Lys-16 to Leu-21, Glu-70 to Lys-83, Cys-98 to Ser-104, Arg-112 to Glu-118, Lys-155 to Ser-160, Asn-196 to Ser-205, Trp-234 to Ser-241,	AR060: 14, AR104: 13, AR033: 11, AR039: 10, AR055: 9, AR089: 8, AR096: 7, AR061: 7, AR053: 6, AR052: 6 L0777: 11, L0756: 4, L0596: 4, S0414: 3, H0038:			50-66, 178-194, 276-292

433	HTJMJ95	840671	443	330 - 1001	1848	Ala-303 to Ala-308, Thr-314 to Gly-321, Asn-349 to Gly-355, Pro-370 to Glu-378, His-384 to Glu-395, Gln-415 to Ile-421, Thr-438 to Leu-444.	3, L0659: 3, L0740: 3, H0265: 2, H0441: 2, S0003: 2, H0032: 2, H0616: 2, L0766: 2, H0144: 2, S0126: 2, L0439: 2, L0780: 2, L0759: 2, S0242: 2, H0542: 2, S0470: 1, S0342: 1, H0650: 1, H0341: 1, S0001: 1, S0282: 1, S0420: 1, S0007: 1, S0476: 1, H0619: 1, T0060: 1, H0013: 1, H0427: 1, H0098: 1, H0042: 1, H0581: 1, S0049: 1, H0052: 1, H0046: 1, H0024: 1, H0051: 1, S6028: 1, H0553: 1, H0644: 1, H0212: 1, H0634: 1, H0551: 1, H0647: 1, S0144: 1, S0344: 1, L0770: 1, L0769: 1, L0639: 1, L0772: 1, L0662: 1, L0794: 1, L0803: 1, L0805: 1, L0666: 1, L0663: 1, L0664: 1, S0374: 1, H0547: 1, H0648: 1, H0696: 1, L0754: 1, L0747: 1, L0752: 1, L0755: 1 and L0591: 1.				121-137
							AR039: 17, AR033: 11, AR096: 8, AR053: 8, AR052: 7, AR104: 7,				

434	HTELT78	840700	444	177 - 998	1849	Arg-5 to Glu-11.	AR089: 7, AR055: 6, AR060: 5, AR061: 5 L0766: 6, L0439: 6, L0749: 5, S0022: 3, H0628: 2, L0769: 2, L0774: 2, L0666: 2, S0152: 2, L0755: 2, H0170: 1, S0476: 1, H0333: 1, H0559: 1, H0270: 1, L0021: 1, H0599: 1, H0123: 1, H0014: 1, S0003: 1, H0617: 1, L0055: 1, H0068: 1, H0135: 1, H0488: 1, H0509: 1, L0763: 1, L0637: 1, L0761: 1, L0772: 1, L0662: 1, L0768: 1, L0650: 1, L0655: 1, L0382: 1, L0809: 1, L0751: 1, L0747: 1, L0750: 1, L0756: 1, L0777: 1, L0731: 1, L0758: 1 and L0759: 1.					208-229, 235-251
							AR053: 25, AR052: 24, AR055: 16, AR033: 13, AR089: 13, AR096: 12, AR060: 11, AR061: 9, AR104: 8, AR039: 5 L0748: 2, L0779: 2, L0759: 2, H0556: 1, L0534: 1, H0565: 1, H0616: 1, S0422: 1, S0126: 1, L0751: 1, L0749: 1, L0758: 1 and					

435	HHFBP51	840811	445	100 - 690	1850	Pro-75 to Lys-91.	L0592: 1. AR089: 1, AR039: 1, AR055: 0, AR096: 0, AR061: 0, AR104: 0, AR060: 0, AR053: 0 L0774: 4, S0134: 2, H0383: 2, S0344: 2, L0803: 2, S0380: 2, H0650: 1, H0656: 1, S0360: 1, S0222: 1, H0486: 1, H0013: 1, H0009: 1, H0050: 1, S6028: 1, S0214: 1, T0023: 1, H0494: 1, H0561: 1, S0142: 1, S0002: 1, L0638: 1, L0512: 1, L0791: 1, H0547: 1, S0328: 1, H0579: 1, S0013: 1, L0742: 1, L0759: 1 and L0581: 1.				164-196, 43-75, 91- 113, 138- 156
436	HHBCS13	840896	446	470 - 1249	1851	Thr-22 to Ser-36.	AR096: 10, AR089: 10, AR104: 9, AR039: 9, AR033: 6, AR053: 5, AR060: 5, AR052: 2, AR055: 2, AR061: 2				89-105
437	HAJAT72	841335	447	500 - 946	1852		AR039: 28, AR053: 17, AR096: 11, AR033: 10, AR052: 9, AR104: 9, AR089: 8, AR055: 7, AR060: 6, AR061: 4				79-95

438	HTLHK92	842395	448	123 - 476	1853	Glu-12 to Lys-31.	H0561: 1 and S0152: 1. AR039: 12, AR055: 8, AR033: 7, AR053: 7, AR089: 6, AR052: 6, AR096: 6, AR060: 5, AR061: 4, AR104: 4 L0774: 3, L0783: 3, L0777: 3, H0013: 2, H0024: 2, L0662: 2, L0768: 2, L0565: 2, L0751: 2, L0758: 2, L0603: 2, H0170: 1, S6024: 1, H0661: 1, S0360: 1, S0222: 1, H0370: 1, H0575: 1, H0618: 1, H0545: 1, S0388: 1, H0124: 1, S0440: 1, S0150: 1, S0142: 1, L0770: 1, L0769: 1, L0764: 1, L0649: 1, L0375: 1, L0634: 1, L0809: 1, L0666: 1, H0547: 1, L0743: 1, L0754: 1, L0749: 1, L0731: 1, L0757: 1, H0506: 1 and H0008: 1.				52-71, 90- 106
439	HAGBQ10	843516	449	1475 - 594	1854	Ser-9 to Ile-16, Asp-110 to Ala-119, Glu-289 to Tyr-294.	AR055: 496, AR039: 256, AR089: 232, AR060: 215, AR033: 209, AR053: 177, AR096: 155, AR052: 154, AR061: 146, AR104: 120 L0439: 5, L0779: 2,				128-147, 266-282, 29-45

440	HCRBB73	844034	450	83 - 520	1855				L0777: 2, L0759: 2, H0156: 1, S0010: 1, S0049: 1, H0052: 1, H0328: 1, L0794: 1, L0804: 1, H0144: 1, L0438: 1, L0352: 1, L0758: 1, L0589: 1 and S0412: 1.				64-96, 3-34, 99-120, 38-55
441	HWHHU1 1	844529	451	85 - 678	1856	Pro-55 to Lys-67, Lys-134 to Glu-144, Pro-166 to Asn-174, Pro-192 to Trp-197.			AR096: 116, AR053: 115, AR089: 113, AR033: 94, AR052: 89, AR061: 79, AR055: 68, AR060: 67, AR039: 22, AR104: 20 L0794: 4, L0778: 1, T0048: 1, H0327: 1, H0012: 1, H0083: 1, H0038: 1, H0509: 1, L0770: 1, L0769: 1, L0659: 1, L0789: 1 and H0520: 1.				21-54, 112-132, 67-89, 92-108

	H0553: 3, H0529: 3, L0769: 3, L0659: 3, H0519: 3, L0588: 3, L0608: 3, L0593: 3, S0011: 3, H0255: 2, S0418: 2, S0046: 2, H0586: 2, S0049: 2, H0150: 2, H0424: 2, H0644: 2, H0560: 2, H0561: 2, S0002: 2, S0426: 2, L0763: 2, L0772: 2, L0646: 2, L0655: 2, L0527: 2, L0518: 2, L0783: 2, L0664: 2, L0665: 2, L0438: 2, H0689: 2, H0672: 2, H0555: 2, H0631: 2, S0206: 2, L0752: 2, L0757: 2, L0758: 2, L0485: 2, L0601: 2, H0543: 2, H0171: 1, H0265: 1, S0040: 1, H0294: 1, T0049: 1, S0134: 1, H0583: 1, H0657: 1, H0484: 1, H0661: 1, H0125: 1, S0420: 1, S0354: 1, S0358: 1, S0360: 1, S0410: 1, H0580: 1, S0132: 1, H0550: 1, H0431: 1, H0592: 1, H0587: 1, H0333: 1, H0270: 1, H0013: 1, H0599: 1, T0082: 1, H0318: 1, H0251: 1, H0309: 1, T0110: 1, H0545: 1, H0041: 1.								
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442	HRAEB76	845247	452	1194 -	1857	Пe-19 to Lys-25.	H0620: 1, H0024: 1, H0057: 1, H0014: 1, S0051: 1, H0083: 1, S0024: 1, H0355: 1, H0266: 1, H0271: 1, H0188: 1, S0250: 1, H0328: 1, H0615: 1, L0483: 1, H0030: 1, H0031: 1, H0111: 1, H0032: 1, H0383: 1, H0674: 1, H0211: 1, L0456: 1, H0068: 1, H0135: 1, H0040: 1, H0634: 1, H0551: 1, H0412: 1, S0450: 1, H0647: 1, H0646: 1, S0144: 1, S0142: 1, S0344: 1, S0210: 1, L0761: 1, L0372: 1, L0764: 1, L0767: 1, L0768: 1, L0649: 1, L0375: 1, L0651: 1, L0784: 1, L0654: 1, L0657: 1, L0515: 1, L0658: 1, L0383: 1, L0809: 1, L0663: 1, S0006: 1, H0520: 1, H0593: 1, H0682: 1, H0684: 1, H0658: 1, H0670: 1, H0696: 1, S0027: 1, L0754: 1, L0747: 1, L0750: 1, L0591: 1, L0595: 1, L0603: 1, S0106: 1, H0668: 1, H0542: 1 and H0423: 1.	AR096: 8, AR039: 4,				56-75, 2-
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443	HPJAO13	845355	453	139 - 612	1858				AR053: 4, AR052: 4, AR089: 3, AR033: 3, AR060: 2, AR104: 2, AR055: 1, AR061: 1 L0756: 4, L0803: 3, L0754: 3, L0731: 3, L0766: 2, L0666: 2, L0779: 2, L0755: 2, S6024: 1, S0114: 1, H0486: 1, L0021: 1, T0082: 1, L0145: 1, L0764: 1, L0363: 1, L0794: 1, L0804: 1, S0052: 1, H0555: 1, L0758: 1, L0592: 1, S0026: 1, H0136: 1 and S0460: 1.				18
									AR061: 2, AR089: 1, AR055: 1, AR052: 1, AR033: 1, AR060: 1, AR096: 1, AR039: 0, AR053: 0, AR104: 0 S0152: 1				19-37, 88- 106, 40- 56, 62-78, 130-146
444	HHENF67	845465	454	148 - 546	1859	Gly-44 to Phe-55, Pro-57 to Ser-64, Arg-83 to Gly-90, Leu-98 to Thr-105.			AR096: 43, AR053: 36, AR039: 32, AR089: 28, AR052: 26, AR104: 19, AR060: 19, AR033: 18, AR055: 7, AR061: 5 S0360: 3, H0031: 3, H0547: 3, L0015: 2, H0583: 1, L0443: 1, H0613: 1,				110-126, 11-27

445	HLQDC55	846521	455	10 - 444	1860			Met-1 to Ser-7, Gly-16 to Ile-24, Thr-28 to Asp-38, Asp-55 to Phe-64, Ser-76 to Lys-82, Leu-116 to Glu-124.	H0586: 1, H0013: 1, S0346: 1, H0546: 1, H0551: 1, H0059: 1, H0509: 1, L0662: 1, L0803: 1, L0774: 1, L0775: 1, L0805: 1, L0657: 1, L0659: 1, L0526: 1, L0666: 1, L0664: 1, S0380: 1 and H0543: 1.				
446	HITJW49	846674	456	94 - 660	1861			Gly-49 to Thr-57, Gly-139 to Arg-144.	AR055: 12, AR061: 7, AR060: 6, AR053: 5, AR033: 4, AR089: 4, AR052: 3, AR096: 2, AR104: 2, AR039: 0 H0574: 1 and S0344: 1. AR055: 4, AR060: 3, AR033: 3, AR096: 3, AR061: 3, AR039: 2, AR089: 2, AR052: 2, AR053: 1, AR104: 1 L0769: 3, L0803: 3, L0748: 3, L0749: 3, H0574: 2, H0046: 2, H0634: 2, S0440: 2, L0794: 2, L0805: 2, L0776: 2, L0439: 2, L0754: 2, L0747: 2, L0755: 2, L0605: 2, L0593: 2, H0686: 1, S0360: 1, L0717: 1, H0069: 1, H0575: 1, H0263: 1, H0620: 1, H0024:	7q21.3- q22.1	120160, 120160, 120160, 120160, 126650, 126650, 129900, 154276, 173360, 173360, 183600, 602136, 602136, 602136, 602447	91-110	77-94

447	HSYAD28	846772	457	98 - 442	1862	Gln-33 to Gly-42, Ser-69 to Ala-77.	1, S0388: 1, H0510: 1, H0266: 1, H0644: 1, L0455: 1, H0163: 1, H0561: 1, S0438: 1, H0695: 1, L0763: 1, L0800: 1, L0804: 1, L0774: 1, L0775: 1, L0807: 1, L0659: 1, L0783: 1, L0809: 1, L0666: 1, L0665: 1, L0438: 1, H0658: 1, H0539: 1, S0152: 1, H0522: 1, L0740: 1, L0777: 1, L0603: 1, S0276: 1 and H0542: 1.							87-111
448	HLWAR77	847144	458	32 - 997	1863	Gln-87 to Pro-104, Trp-107 to Lys-119,	AR089: 2, AR096: 2, AR053: 2, AR052: 2, AR039: 2, AR060: 1, AR055: 1, AR104: 1, AR033: 1, AR061: 1 L0766: 6, L0749: 6, L0803: 2, H0395: 1, H0556: 1, H0599: 1, H0196: 1, H0545: 1, H0551: 1, H0633: 1, L0772: 1, L0800: 1, L0794: 1, L0806: 1, L0382: 1, S0152: 1, L0751: 1, L0754: 1, L0750: 1, L0608: 1, H0542: 1 and H0543: 1.							54-85, 170-198,

						Thr-156 to Gln-163, Ser-168 to Lys-173, Glu-240 to Phe-246, Ser-285 to His-291, Tyr-297 to Gln-306, Glu-312 to Ser-320.	AR104: 1, AR060: 1, AR061: 1, AR053: 1, AR052: 1, AR055: 1 H0553: 4 and L0759: 2.				121-141, 21-45, 208-224
449	HCE2W33	847388	459	1134 - 1820	1864	His-78 to Tyr-106, Glu-115 to Asp-120, Trp-139 to Thr-146, Pro-153 to Thr-187, Pro-213 to Ser-220.	AR104: 249, AR061: 203, AR060: 179, AR033: 175, AR039: 168, AR055: 147, AR096: 122, AR089: 92, AR053: 67, AR052: 66 L0741: 18, L0766: 10, L0438: 9, H0052: 6, L0748: 6, H0622: 5, H0617: 5, L0665: 5, H0539: 5, H0542: 5, S0418: 4, H0553: 4, H0059: 4, H0494: 4, L0666: 4, H0521: 4, L0751: 4, L0750: 4, L0758: 4, L0759: 4, L0593: 4, L0595: 4, H0543: 4, H0656: 3, H0484: 3, S0420: 3, H0706: 3, H0086: 3, H0009: 3, H0050: 3, H0124: 3, H0087: 3, T0042: 3, H0509: 3, L0770: 3, L0761: 3, L0772: 3, L0771: 3, L0768: 3, L0497: 3, L0776: 3, L0659: 3, L0664: 3, L0439: 3, L0740: 3, L0591: 3, H0556: 2,				47-77

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450	HSOAC39	847431	460	77 - 679	1865	Ala-118 to Phe-124, Arg-178 to Lys-201.	H0328: 1, H0428: 1, L0142: 1, S0364: 1, H0040: 1, H0616: 1, H0551: 1, H0264: 1, H0268: 1, H0412: 1, T0041: 1, S0440: 1, S0144: 1, S0142: 1, S0210: 1, H0695: 1, L0369: 1, L0763: 1, L0769: 1, L5565: 1, L0667: 1, L0646: 1, L0643: 1, L0648: 1, L0649: 1, L0774: 1, L0775: 1, L0375: 1, L0651: 1, L0653: 1, L0658: 1, L0383: 1, L0663: 1, H0519: 1, H0658: 1, H0670: 1, H0648: 1, H0696: 1, H0134: 1, H0555: 1, H0576: 1, S3014: 1, S0032: 1, L0745: 1, L0749: 1, L0731: 1, H0445: 1, S0434: 1, L0581: 1, L0361: 1, H0668: 1, S0276: 1, L0469: 1, H0422: 1 and S0460: 1.					1-28, 151- 175, 127- 143
							AR096: 2, AR033: 2, AR053: 2, AR060: 2, AR089: 1, AR104: 1, AR052: 1, AR055: 1, AR061: 1, AR039: 0 S0358: 36, S0374: 19, S0408: 16, S0444: 15, L0518: 12, S0442: 11,					

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451	HAAV01	847551	461	357 - 707	1866	Ala-28 to Thr-35.	1, L0640: 1, L0763: 1, L0642: 1, L0363: 1, L0386: 1, L0803: 1, L0774: 1, L0775: 1, L0805: 1, L0776: 1, L0659: 1, L0517: 1, L0543: 1, L0664: 1, L0665: 1, H0144: 1, H0682: 1, H0658: 1, H0670: 1, S0380: 1, S0044: 1, H0134: 1, S0404: 1, L0743: 1, L0750: 1, L0731: 1, L0757: 1, H0445: 1, S0011: 1, H0668: 1 and S0276: 1. AR055: 2, AR053: 2, AR039: 2, AR033: 2, AR089: 1, AR052: 1, AR061: 1, AR060: 1, AR096: 0 H0255: 4, H0617: 3, L0666: 3, H0690: 3, L0742: 3, S0222: 2, H0618: 2, L0665: 2, H0265: 1, H0556: 1, H0295: 1, S0212: 1, H0661: 1, S0354: 1, S0376: 1, S0360: 1, S0046: 1, H0619: 1, L0717: 1, S0278: 1, H0455: 1, H0438: 1, H0559: 1, S0049: 1, H0052: 1, H0024: 1, S0051: 1, S0628: 1, H0428: 1, H0424:					86-109, 40-56
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452	HWGQC67	847568	462	121 - 522	1867	Lys-53 to Asn-58.	1, H0673: 1, H0124: 1, H0087: 1, H0551: 1, H0561: 1, S0210: 1, H0529: 1, L0761: 1, L0644: 1, L0803: 1, L0774: 1, L0775: 1, L0805: 1, L0656: 1, H0519: 1, H0659: 1, H0672: 1, L0777: 1, L0698: 1 and H0677: 1.					93-114, 17-35, 70- 86
							AR053: 1, AR089: 1, AR033: 1, AR061: 1, AR060: 0, AR096: 0, AR052: 0, AR055: 0, AR039: 0, AR104: 0 L0805: 3, L0659: 3, S0406: 3, L0779: 3, S0376: 2, H0013: 2, H0553: 2, L0761: 2, L0773: 2, L0662: 2, L0794: 2, L0803: 2, L0665: 2, H0539: 2, S0404: 2, L0748: 2, L0754: 2, L0731: 2, H0265: 1, S0114: 1, H0583: 1, H0650: 1, S0212: 1, S0442: 1, S0354: 1, S0408: 1, H0351: 1, H0592: 1, H0575: 1, S0474: 1, H0581: 1, H0271: 1, H0687: 1, H0622: 1, S0382: 1, S0448: 1, H0529: 1, L0640: 1, L0763: 1, L0764:					

453	HFJJC17	847634	463	394 - 726	1868	Ser-35 to Arg-45.	1, L0771: 1, L0804: 1, L0776: 1, L0655: 1, L0788: 1, L0666: 1, H0666: 1, H0555: 1, L0751: 1, L0750: 1 and L0759: 1.				46-62, 18- 34
454	HBXCD74	847677	464	709 - 1014	1869	Pro-3 to Glu-8.	AR052: 7, AR096: 7, AR089: 5, AR053: 4, AR060: 4, AR033: 3, AR104: 2, AR061: 2, AR055: 2, AR039: 0 H0438: 1, L0764: 1, L0626: 1, H0445: 1 and S0194: 1. AR096: 3, AR089: 2, AR053: 1, AR104: 1, AR055: 1, AR060: 1, AR052: 1, AR061: 1, AR039: 0, AR033: 0 L0439: 11, L0751: 5, S0222: 3, L0769: 3, L0766: 3, H0617: 2, S0038: 2, L0770: 2, L0764: 2, L0794: 2, L0438: 2, L0747: 2, L0752: 2, H0445: 2, S6024: 1, S0001: 1, H0351: 1, H0586: 1, S0010: 1, H0373: 1, S0051: 1, T0010: 1, S6028: 1, H0264: 1, S0150: 1, L0768: 1, S0052: 1,				64-80

455	HPICD14	847876	465	1284 - 544	1870	Pro-44 to Trp-49, Met-58 to His-65, Pro-68 to Lys-76, Ser-153 to Asp-158, Ser-235 to Gln-246.	H0522: 1, L0741: 1, L0753: 1, L0758: 1 and H0422: 1. AR033: 5, AR096: 5, AR052: 5, AR055: 5, AR089: 4, AR053: 4, AR061: 4, AR060: 4, AR039: 2, AR104: 2 L0748: 8, L0766: 7, L0771: 5, S0422: 3, H0529: 3, H0519: 3, L0749: 3, L0756: 3, H0641: 2, L0659: 2, S0374: 2, L0438: 2, H0547: 2, L0751: 2, L0750: 2, L0758: 2, H0484: 1, S0420: 1, S0442: 1, S0358: 1, S0410: 1, S0007: 1, H0632: 1, L0483: 1, H0606: 1, H0268: 1, H0494: 1, S0150: 1, L0763: 1, L0637: 1, L0764: 1, L0768: 1, L0774: 1, L0653: 1, L0809: 1, L0666: 1, H0144: 1, H0520: 1, H0658: 1, S0328: 1, H0539: 1, S0406: 1, S0027: 1, L0744: 1, L0754: 1, L0777: 1, S0434: 1, L0592: 1, L0608: 1, L0593: 1, H0136: 1, H0543: 1 and H0422: 1.				210-235, 95-117, 184-204, 161-177, 123-139
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456	HBGNJ21	848184	466	21 - 521	1871	Glu-151 to Gln-157.	AR096: 1, AR039: 1, AR033: 1, AR060: 1, AR053: 1, AR052: 1, AR089: 1, AR055: 1, AR061: 0, AR104: 0 H0617: 3, S0282: 1, S0045: 1, H0135: 1 and S0028: 1.			88-114, 113-137, 17-42, 47- 68
457	HBGNW78	848214	467	299 - 640	1872	Gln-10 to Tyr-16, Asn-20 to Arg-25.	AR033: 1, AR104: 1, AR089: 1, AR096: 1, AR053: 1, AR060: 0, AR061: 0, AR055: 0, AR052: 0, AR039: 0 H0617: 5, S0278: 1 and S0028: 1.			49-69
458	HSDZN36	848395	468	652 - 1053	1873		AR055: 16, AR033: 14, AR060: 13, AR061: 10, AR104: 10, AR052: 8, AR089: 7, AR053: 6, AR039: 5, AR096: 5 S0414: 26, L0777: 8, L0758: 4, S0422: 3, L0731: 3, H0170: 2, S6016: 2, H0009: 2, L0471: 2, H0051: 2, S6028: 2, H0266: 2, L0653: 2, L0809: 2, L0666: 2, L0663: 2, H0689: 2, L0745: 2, L0750: 2, S0412: 2, S0358: 1, S0360: 1,			114-132, 65-82, 39- 55, 14-30

459	HFPCS09	848480	469	9 - 401	1874				S0408: 1, H0728: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, H0587: 1, H0574: 1, H0052: 1, H0046: 1, H0615: 1, H0428: 1, H0553: 1, S0036: 1, H0090: 1, H0591: 1, H0623: 1, S0440: 1, L0637: 1, L0771: 1, L0794: 1, L0766: 1, L0388: 1, L0803: 1, L0774: 1, L0805: 1, L0607: 1, L0659: 1, L0636: 1, L0647: 1, L0790: 1, L0664: 1, L0665: 1, H0519: 1, H0658: 1, S0378: 1, H0518: 1, S0152: 1, H0521: 1, S3012: 1, L0779: 1, L0752: 1, L0759: 1, S0434: 1 and H0653: 1.				32-48, 98-117, 8-24
460	HAIBB95	848610	470	301 - 795	1875	Glu-9 to Leu-18, Leu-22 to Pro-27.			AR039: 16, AR055: 12, AR104: 8, AR053: 8, AR033: 8, AR060: 7, AR052: 7, AR096: 6, AR089: 6, AR061: 6			88-107	

461	HHEFI08	848769	471	109 - 417	1876	Gly-82 to Tyr-87.	H0038: 3, L0770: 3, L0777: 3, L0794: 2, L0766: 2, L0803: 2, L0779: 2, L0758: 2, S0132: 1, H0393: 1, H0549: 1, H0586: 1, H0559: 1, H0004: 1, H0581: 1, H0545: 1, H0457: 1, H0266: 1, H0030: 1, H0316: 1, H0551: 1, H0056: 1, L0659: 1, L0517: 1, L0792: 1, H0691: 1, H0555: 1 and L0599: 1.				
462	HE8OM63	848773	472	10 - 432	1877	Ala-57 to Trp-62.	AR096: 1, AR089: 1, AR060: 1, AR061: 1, AR033: 0, AR052: 0, AR055: 0, AR039: 0, AR053: 0, AR104: 0 H0561: 1, L0748: 1 and H0542: 1.				61-79
463	HAJAG88	848785	473	158 - 631	1878	Arg-26 to Cys-31.	AR089: 1, AR033: 0, AR055: 0, AR039: 0, AR053: 0, AR060: 0, AR096: 0, AR061: 0, AR052: 0, AR104: 0 H0013: 1 and H0561: 1. AR096: 6, AR089: 4, AR039: 3, AR053: 3, AR033: 3, AR052: 3, AR060: 2, AR104: 2,				110-128
											2-24, 116- 139, 32- 49, 93- 111, 62-78

464	HAJCL92	849547	474	33 - 2522	1879	Lys-136 to Glu-143, Lys-184 to Ser-189, Ser-195 to Asn-205, Asn-232 to Thr-240, Arg-276 to Phe-285, Glu-406 to Glu-414, Thr-476 to Tyr-482, Tyr-496 to Ala-501, Pro-588 to Glu-593, Pro-612 to Leu-618, Gly-623 to Gln-630, Thr-670 to Ser-681, Lys-701 to Glu-715, Lys-759 to Glu-769, Met-773 to Asn-797, Ser-809 to Asp-823.	AR055: 2, AR061: 1 L0527: 2, H0657: 1, H0341: 1, S0222: 1, H0438: 1, T0048: 1, S0049: 1, S0250: 1, S0036: 1, H0087: 1, H0561: 1, L0369: 1, L0388: 1, L0518: 1, H0520: 1, H0519: 1, H0435: 1, L0366: 1 and L0697: 1.					739-756, 89-105, 249-265, 166-182, 511-527
						Lys-136 to Glu-143, Lys-184 to Ser-189, Ser-195 to Asn-205, Asn-232 to Thr-240, Arg-276 to Phe-285, Glu-406 to Glu-414, Thr-476 to Tyr-482, Tyr-496 to Ala-501, Pro-588 to Glu-593, Pro-612 to Leu-618, Gly-623 to Gln-630, Thr-670 to Ser-681, Lys-701 to Glu-715, Lys-759 to Glu-769, Met-773 to Asn-797, Ser-809 to Asp-823.	AR053: 2, AR096: 2, AR089: 2, AR052: 2, AR033: 2, AR055: 2, AR060: 1, AR104: 1, AR061: 1, AR039: 1 L0770: 9, S0152: 6, L0744: 6, L0758: 6, L0665: 5, S0404: 5, S0356: 4, L0794: 4, L0803: 4, L0755: 4, L0595: 4, H0591: 3, H0547: 3, L0777: 3, S0408: 2, H0619: 2, H0581: 2, L0471: 2, H0188: 2, L0771: 2, L0659: 2, L0666: 2, L0663: 2, L0664: 2, H0436: 2, L0747: 2, L0731: 2, L0362: 2, H0170: 1, T0002: 1, H0657: 1, H0661: 1, H0638: 1, S0442: 1, S0358: 1, S0007: 1, L0717: 1, H0497: 1, T0039: 1, T0109:					

465	HHAMA15	849576	475	62 - 646	1880	1, H0013: 1, H0069: 1, H0575: 1, H0004: 1, H0318: 1, H0050: 1, H0014: 1, S0388: 1, H0687: 1, S0250: 1, S0003: 1, H0090: 1, H0616: 1, L0060: 1, H0551: 1, H0268: 1, H0412: 1, H0413: 1, H0561: 1, S0352: 1, S0372: 1, S0150: 1, L0640: 1, L0804: 1, L0650: 1, L0383: 1, L0791: 1, H0144: 1, H0519: 1, H0435: 1, H0648: 1, H0672: 1, H0521: 1, S0406: 1, H0478: 1, S0037: 1, S0027: 1, L0439: 1, L0751: 1, L0754: 1, L0750: 1, L0752: 1, L0759: 1, L0361: 1, H0136: 1 and S0196: 1. AR096: 2, AR104: 1, AR055: 1, AR033: 1, AR061: 1, AR060: 1, AR089: 1, AR039: 0, AR052: 0, AR053: 0 S0358: 6, L0803: 5, H0510: 2, S0438: 2, S0422: 2, L0769: 2, L0805: 2, L0527: 2, L0789: 2, L0748: 2, L0747: 2, L0750: 2, L0615: 1, L0460: 1, H0484:					109-133, 175-191, 30-46
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466	HPJDE45	849610	476	550 - 1353	1881	Ala-5 to Asn-28, Pro-47 to His-52, Tyr-83 to Arg-90.			AR096: 3, AR089: 3, AR053: 3, AR060: 2, AR033: 2, AR104: 2, AR055: 2, AR039: 1, AR052: 1, AR061: 1 H0436: 3, L0605: 3, H0551: 2, L0662: 2, S0028: 2, L0748: 2, L0754: 2, L0759: 2, S0134: 1, S0001: 1, S0358: 1, S0360: 1, H0550: 1, H0404: 1, H0156: 1, H0041: 1, H0050: 1, H0031: 1, H0591: 1, S0386: 1, L0521: 1, L0803: 1, H0547: 1, H0682: 1, H0658: 1, S0152: 1, S0027: 1, L0745: 1, H0445: 1, S0196: 1 and H0423: 1.			245-261	
467	HPMJG77	849645	477	179 - 1405	1882	Met-1 to Ser-8, Ser-31 to Asp-40, Asn-44 to Val-51,			AR033: 7, AR060: 7, AR052: 7, AR055: 6, AR096: 5, AR089: 5,			298-314, 69-85	

Asp-87 to Ser-95, Pro-115 to Ser-125, Phe-131 to Phe-138, Leu-166 to Gly-171, His-197 to Gln-206, Leu-217 to Lys-224, Thr-359 to Glu-370, Met-373 to Tyr-378, Lys-403 to Asn-409.	AR053: 5, AR039: 4, AR061: 3, AR104: 2 L0803: 15, L0766: 5, S0208: 4, L0758: 4, S0222: 3, S0003: 3, H0529: 3, L0770: 3, L0666: 3, L0756: 3, H0170: 2, H0171: 2, S0356: 2, H0637: 2, S0045: 2, L0763: 2, L0662: 2, L0794: 2, L0774: 2, L0805: 2, L0809: 2, H0436: 2, L0747: 2, L0750: 2, L0755: 2, H0624: 1, S0418: 1, H0741: 1, S0132: 1, H0331: 1, H0013: 1, H0318: 1, S0049: 1, H0052: 1, H0596: 1, H0457: 1, H0051: 1, H0510: 1, S6028: 1, S0214: 1, H0428: 1, H0553: 1, H0644: 1, H0032: 1, H0090: 1, H0591: 1, H0616: 1, H0413: 1, H0494: 1, L0475: 1, S0438: 1, S0344: 1, L0796: 1, L0637: 1, L0646: 1, L0800: 1, L0648: 1, L0804: 1, L0806: 1, L0776: 1, L0655: 1, L0807: 1, L0527: 1, L0659: 1, L0790: 1, L0791: 1, L0664: 1, H0725: 1, S0148: 1, H0520:
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468	HBCCG79	850225	478	184 - 723	1883	Pro-3 to Thr-9, Leu-39 to Val-44, Ile-121 to Tyr-128, Ser-149 to Val-156.	1, H0519: 1, H0593: 1, S0330: 1, H0521: 1, H0522: 1, S0406: 1, S0392: 1, S3014: 1, S0028: 1, S0206: 1, L0740: 1, L0754: 1, L0745: 1, L0779: 1, L0777: 1, L0752: 1, L0731: 1, S0436: 1, L0596: 1, S0194: 1 and H0423: 1.					130-146
							AR052: 20, AR096: 20, AR089: 15, AR053: 14, AR060: 13, AR033: 10, AR055: 9, AR039: 8, AR104: 5, AR061: 4 S0126: 6, L0766: 5, S0046: 3, S0152: 3, L0748: 3, S0354: 2, S0376: 2, S0045: 2, H0013: 2, H0050: 2, H0634: 2, H0547: 2, H0521: 2, S0028: 2, L0747: 2, L0731: 2, L0596: 2, S0040: 1, H0657: 1, H0381: 1, S0356: 1, S0360: 1, H0393: 1, L0717: 1, H0370: 1, H0599: 1, H0318: 1, H0581: 1, H0123: 1, L0471: 1, H0024: 1, H0014: 1, H0266: 1, S0003: 1, S0022: 1, H0031: 1, H0591: 1, H0038: 1, H0551: 1, T0042: 1,					

469	HFIHQ53	850238	479	19 - 651	1884	Thr-43 to Leu-48, Ala-74 to Ser-85, Ser-122 to Asn-130, Gln-133 to Gly-139.	H0561: 1, S0144: 1, H0529: 1, L0646: 1, L0794: 1, L0774: 1, L0776: 1, L0659: 1, L0666: 1, L0664: 1, H0435: 1, S0378: 1, H0555: 1, S0027: 1, S0206: 1, L0750: 1, L0759: 1, H0653: 1 and H0543: 1.					95-111
470	HUVFU38	850252	480	367 - 960	1885	Ala-47 to Asp-53, Glu-105 to Arg-112, Tyr-150 to Leu-157.	AR033: 1, AR096: 1, AR052: 1, AR055: 1, AR060: 1, AR089: 1, AR104: 1, AR039: 1, AR061: 1, AR053: 1 H0656: 2, S0420: 2, L0364: 2, H0650: 1, H0657: 1, S0356: 1, S0360: 1, H0486: 1, H0598: 1, H0591: 1, H0529: 1, L0764: 1, H0519: 1, H0521: 1, H0522: 1, S0044: 1, H0445: 1, S0194: 1 and H0677: 1. AR055: 8, AR061: 5, AR060: 5, AR096: 4, AR089: 4, AR052: 4, AR033: 4, AR053: 3, AR104: 3, AR039: 3 H0623: 2 and S0278: 1.					159-179
471	HUDBK83	850353	481	3238 - 1439	1886	Gly-38 to Asp-47, Thr-208 to Phe-221.	AR089: 4, AR033: 4, AR052: 4, AR096: 4.					234-251, 18-34.

					Glu-273 to Tyr-279, Thr-286 to Arg-291, Ala-341 to Asn-346, Ser-365 to Leu-370, Asp-519 to Thr-526, Pro-563 to Gly-568.	AR053: 3, AR060: 3, AR061: 3, AR055: 3, AR039: 2, AR104: 2 H0253: 10, H0617: 8, H0559: 7, H0265: 6, H0618: 5, H0551: 5, S0434: 5, H0052: 4, H0620: 4, L0794: 4, H0556: 3, H0135: 3, H0087: 3, L0659: 3, L0666: 3, L0663: 3, L0438: 3, H0522: 3, L0749: 3, H0171: 2, H0657: 2, H0341: 2, H0484: 2, H0255: 2, S0356: 2, S0360: 2, S0046: 2, H0550: 2, H0251: 2, H0051: 2, H0188: 2, H0424: 2, H0031: 2, H0040: 2, H0494: 2, S0344: 2, L0769: 2, L0662: 2, L0774: 2, L0783: 2, L0809: 2, H0696: 2, L0439: 2, L0751: 2, L0779: 2, L0731: 2, L0759: 2, L0605: 2, L0361: 2, L0601: 2, H0624: 1, H0159: 1, S6024: 1, H0295: 1, H0656: 1, S0420: 1, S0442: 1, S0408: 1, H0637: 1, L0717: 1, H0351: 1, S0222: 1, H0441: 1, H0370: 1, H0592: 1, H0586: 1, H0497: 1	157-173, 443-459
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	H0643: 1, H0257: 1, H0013: 1, H0635: 1, H0156: 1, H0042: 1, H0706: 1, H0318: 1, H0581: 1, H0194: 1, H0327: 1, H0046: 1, H0009: 1, H0178: 1, H0565: 1, H0012: 1, H0023: 1, H0201: 1, S0051: 1, H0083: 1, S6028: 1, H0266: 1, H0271: 1, H0428: 1, H0604: 1, H0417: 1, H0181: 1, H0708: 1, H0163: 1, H0038: 1, H0634: 1, H0063: 1, H0264: 1, H0412: 1, S0038: 1, L0351: 1, H0359: 1, S0150: 1, H0646: 1, H0538: 1, S0002: 1, S0426: 1, L0640: 1, L0772: 1, L0372: 1, L0641: 1, L0643: 1, L0764: 1, L0767: 1, L0768: 1, L0766: 1, L0375: 1, L0378: 1, L0806: 1, L0652: 1, L0656: 1, L0636: 1, L0790: 1, L0664: 1, H0144: 1, S0374: 1, H0520: 1, H0547: 1, H0519: 1, H0593: 1, H0682: 1, H0651: 1, S0328: 1, H0539: 1, S0380: 1, S0332: 1, S0406: 1, S3014: 1, S0027: 1, L0754: 1.	
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472	HDP5B01	850581	482	38 - 391	1887	<p>L0750: 1, L0755: 1, L0757: 1, L0758: 1, S0031: 1, S0436: 1, L0593: 1, H0667: 1, H0217: 1, H0423: 1, H0422: 1 and S0042: 1.</p> <p>AR052: 5, AR039: 4, AR053: 4, AR033: 3, AR096: 3, AR060: 3, AR055: 3, AR089: 2, AR104: 2, AR061: 1</p> <p>H0521: 7, L0519: 4, L0598: 3, L0794: 3, L0779: 3, L0755: 3, H0542: 3, H0637: 2, H0251: 2, L0662: 2, L0803: 2, H0436: 2, L0743: 2, L0749: 2, L0752: 2, L0599: 2, H0543: 2, H0661: 1, H0305: 1, S0358: 1, S0360: 1, S0278: 1, H0486: 1, H0427: 1, T0082: 1, H0309: 1, H0014: 1, H0271: 1, H0561: 1, S0144: 1, S0344: 1, L0631: 1, L0800: 1, L0804: 1, L0651: 1, L0806: 1, L0653: 1, L0776: 1, L0527: 1, L0659: 1, L0666: 1, H0144: 1, H0672: 1, H0696: 1, H0478: 1, L0750: 1, L0756: 1, L0758: 1, S0031: 1, H0444:</p>					49-76, 1-17, 30-46, 94-110
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473	HKAPB61	850629	483	45 - 572	1888	Pro-16 to Thr-25, Thr-47 to Leu-54, Tyr-62 to Gln-77, Pro-112 to Tyr-131.	1, H0445: 1, H0595: 1, L0592: 1, S0192: 1 and S0242: 1. AR033: 12, AR104: 12, AR060: 9, AR089: 8, AR055: 7, AR061: 7, AR053: 6, AR052: 6, AR039: 4, AR096: 4 H0624: 2, H0014: 2, H0622: 2, H0038: 2, H0616: 2, H0661: 1, T0082: 1, H0494: 1, H0538: 1, H0144: 1, S0126: 1, L0743: 1, L0754: 1 and L0758: 1.				131-147
474	HMEGF05	850930	484	427 - 831	1889	Leu-32 to Val-37.	AR055: 6, AR096: 6, AR052: 5, AR060: 4, AR089: 4, AR033: 3, AR039: 3, AR061: 3, AR053: 2, AR104: 1 H0457: 4, S0045: 1, H0586: 1, H0581: 1, H0266: 1, H0628: 1, L0659: 1 and H0519: 1.				66-90, 1- 19, 36-54, 97-113
475	HPTVF17	850963	485	230 - 691	1890	Glu-8 to Thr-13, Glu-18 to Pro-25, Ser-48 to Val-55.	AR052: 10, AR053: 10, AR055: 9, AR033: 6, AR061: 5, AR060: 5, AR039: 5, AR089: 5, AR104: 4, AR096: 4 S0420: 1, H0424: 1,				93-111



476	HDLBF57	851303	486	19 - 561	1891	Glu-40 to Gln-48.	S0144: 1 and L0595: 1. AR033: 8, AR053: 7, AR089: 6, AR052: 6, AR055: 5, AR039: 5, AR060: 4, AR096: 4, AR061: 3, AR104: 3 L0157: 4, H0038: 4, H0013: 3, L0766: 3, S0354: 2, H0545: 2, L0794: 2, L0783: 2, L0665: 2, H0144: 2, L0756: 2, L0777: 2, L0593: 2, L0595: 2, H0665: 2, H0656: 1, H0484: 1, H0254: 1, H0125: 1, S0356: 1, S6026: 1, H0485: 1, H0618: 1, H0318: 1, S0388: 1, H0266: 1, H0039: 1, H0673: 1, H0412: 1, L0770: 1, L0769: 1, L0761: 1, L0803: 1, L0653: 1, L0382: 1, L0792: 1, S0052: 1, H0690: 1, H0658: 1, H0539: 1, S3014: 1, S0028: 1, L0779: 1, L0758: 1 and L0759: 1.			133-165, 1-22, 57- 75, 92-108
477	HE8QT62	851311	487	1129 - 1530	1892	Ser-31 to Gln-44, Ser-91 to Gln-96.	AR052: 11, AR055: 9, AR061: 7, AR053: 6, AR033: 6, AR096: 6, AR060: 6, AR089: 5,			56-74

478	HE9FI33	851342	488	45 - 416	1893	Arg-65 to His-70.	AR104: 3, AR039: 2 H0013: 3, H0090: 2, S0002: 2, H0144: 2, H0161: 1, S0134: 1, S0418: 1, S0360: 1, H0580: 1, S0045: 1, S0222: 1, H0244: 1, H0575: 1, H0039: 1, H0032: 1, H0616: 1, H0063: 1, S0142: 1, H0529: 1, L0372: 1, L0803: 1, L0790: 1, L0791: 1, H0521: 1, L0593: 1, S0242: 1, H0543: 1 and H0423: 1.					3-27, 93- 118, 32- 49, 73-89
479	HOUBJ40	851343	489	48 - 506	1894	Lys-42 to Gly-48, Asp-71 to Pro-76, Tyr-84 to Met-91.	AR055: 7, AR052: 4, AR053: 4, AR060: 4, AR061: 4, AR033: 3, AR089: 3, AR096: 3, AR104: 3, AR039: 2 L0749: 2, H0144: 1 and L0748: 1. AR055: 9, AR052: 7, AR060: 6, AR053: 6, AR033: 5, AR061: 5, AR096: 5, AR089: 5, AR039: 3, AR104: 3 L0666: 2, L0779: 2, S0040: 1, S0442: 1, H0634: 1, L0643: 1, L0804: 1, L0775: 1, L0809: 1, H0144:					101-117

480	HHEVC06	851355	490	566 - 1060	1895	Pro-58 to His-69, Glu-132 to Asn-138.	1, L0777: 1 and L0752: 1. AR096: 9, AR089: 7, AR052: 6, AR053: 6, AR039: 4, AR060: 4, AR104: 4, AR033: 2, AR055: 2, AR061: 1 L0526: 1, H0144: 1, L0748: 1 and H0543: 1.				7-23, 106- 122, 139- 155
481	HE8FS36	851478	491	118 - 456	1896		AR039: 7, AR055: 7, AR096: 6, AR033: 6, AR052: 5, AR060: 5, AR089: 5, AR053: 5, AR061: 3, AR104: 3 L0766: 2, L0759: 2, H0580: 1, H0611: 1, H0013: 1, S0474: 1, H0057: 1, H0268: 1, H0413: 1, L0655: 1, L0748: 1, L0756: 1, H0595: 1 and L0594: 1.				40-68, 1- 24, 76-92
482	HE2SS47	851581	492	610 - 942	1897		AR089: 1, AR053: 1, AR060: 0, AR061: 0, AR055: 0, AR096: 0, AR039: 0, AR033: 0, AR052: 0 S0001: 2, H0624: 1, H0255: 1, S0428: 1, S0152: 1, S0028: 1, S0031: 1 and S0260: 1.				71-108, 68-84
483	HTELD06	851722	493	243 -	1898	Tyr-25 to Val-30.	AR089: 12, AR033: 12,				156-172

484	HDPJH06	851787	494	551 - 916	1899	Thr-2 to Val-8, Leu-43 to Glu-48, Lys-53 to Gln-61.	AR052: 11, AR060: 10, AR096: 8, AR053: 7, AR104: 5, AR039: 5, AR061: 4, AR055: 3 H0616: 2, L0665: 2, L0779: 2, H0624: 1, H0156: 1, L0766: 1, L0803: 1, L0517: 1, L0367: 1, L0792: 1, L0663: 1, L0748: 1, L0754: 1 and L0758: 1.				
							AR096: 5, AR052: 5, AR039: 5, AR053: 4, AR089: 3, AR033: 3, AR060: 3, AR104: 3, AR055: 2, AR061: 1 S0003: 4, L0756: 4, H0521: 3, H0171: 2, H0014: 2, S0214: 2, L0748: 2, L0747: 2, L0755: 2, H0581: 1, H0263: 1, L0471: 1, H0266: 1, H0328: 1, H0615: 1, H0553: 1, H0032: 1, H0591: 1, H0038: 1, H0100: 1, H0494: 1, S0422: 1, S0002: 1, L0773: 1, L0766: 1, L0375: 1, L0776: 1, L0527: 1, L0659: 1, H0520: 1, H0478: 1, L0750: 1, L0779: 1, L0759: 1, S0031: 1, L0591: 1 and S0026: 1.				93-109

485	HDTKS69	851859	495	35 - 349	1900		AR033: 10, AR061: 8, AR060: 6, AR089: 4, AR055: 1, AR104: 1, AR096: 1, AR052: 0, AR053: 0, AR039: 0 L0439: 3, H0052: 2, S6028: 2, L0792: 2, H0486: 1, S0346: 1, L0471: 1, S0016: 1, L0776: 1, L0659: 1, L0438: 1 and H0539: 1.			2-30, 70- 89, 41-58
486	HE6CH89	852568	496	132 - 527	1901	Lys-78 to Glu-88, Ser-93 to Glu-102, Ser-109 to Cys-117, Arg-126 to Gln-132.	AR052: 4, AR060: 2, AR033: 2, AR089: 1, AR053: 1, AR096: 1, AR055: 1, AR104: 1, AR061: 1, AR039: 0 L0748: 7, L0659: 3, L0747: 3, S0212: 2, S0010: 2, H0132: 2, L0764: 2, L0744: 2, L0752: 2, L0759: 2, S0424: 2, H0170: 1, S0116: 1, S0358: 1, S6016: 1, H0587: 1, H0575: 1, H0421: 1, H0041: 1, H0050: 1, L0471: 1, H0375: 1, H0615: 1, H0039: 1, H0674: 1, H0100: 1, H0625: 1, H0654: 1, H0529: 1, L0364: 1, L0636: 1, L0526: 1, L0783: 1, L0532: 1, L0663: 1, L0665: 1, H0724: 1,			57-79, 30- 49

487	HDPGS20	852676	497	18 - 833	1902	Pro-36 to Gln-42, Cys-73 to Ser-86.	H0658: 1, H0660: 1, H0521: 1, H0522: 1, S0406: 1 and L0740: 1. AR089: 1, AR033: 1, AR053: 1, AR055: 1, AR060: 1, AR096: 1, AR061: 0, AR039: 0, AR104: 0, AR052: 0 H0521: 7, S0022: 6, L0770: 6, L0769: 6, L0758: 5, S0051: 4, L0747: 4, L0756: 4, H0638: 3, H0124: 3, L0794: 3, L0805: 3, S0278: 2, S0222: 2, H0052: 2, H0327: 2, H0100: 2, L0789: 2, L0438: 2, L0439: 2, L0751: 2, L0777: 2, L0591: 2, S0282: 1, S0356: 1, L0717: 1, H0441: 1, H0587: 1, L0163: 1, H0051: 1, S0048: 1, H0594: 1, H0328: 1, L0455: 1, S0036: 1, S0038: 1, S0344: 1, L0761: 1, L0775: 1, L0375: 1, L0776: 1, L0659: 1, L0809: 1, L0647: 1, H0522: 1, L0750: 1, L0753: 1, H0445: 1 and L0366: 1.				210-237, 41-73, 84- 110, 238- 257
488	HWBBZ12	852760	498	3509 -	1903	Ile-37 to Phe-45,	AR055: 6, AR060: 4,			79-97	

						Leu-109 to Glu-118, Ser-169 to Ser-178.	2913			AR096: 4, AR052: 3, AR061: 2, AR053: 2, AR104: 1, AR033: 1, AR089: 0, AR039: 0 L0766: 9, L0794: 6, L0439: 6, L0731: 5, L0779: 4, L0717: 3, H0622: 2, S0422: 2, L0740: 2, L0756: 2, L0595: 2, H0402: 1, S0420: 1, S0444: 1, H0580: 1, H0208: 1, S0278: 1, H0261: 1, S0222: 1, H0497: 1, H0574: 1, L0471: 1, H0641: 1, L0646: 1, L0764: 1, L0773: 1, L0803: 1, L0804: 1, L0526: 1, L0783: 1, L0791: 1, L0664: 1, L0665: 1, H0520: 1, H0521: 1, H0522: 1, H0696: 1, H0436: 1, L0777: 1, L0755: 1, L0759: 1, H0595: 1, L0604: 1 and H0422: 1.				
489	HDPBI36	852845	499	59 - 607	1904	Lys-57 to Lys-65, Gln-72 to Glu-81, Lys-88 to Lys-93, Tyr-147 to Glu-156.				AR053: 2, AR039: 2, AR052: 1, AR060: 1, AR089: 1, AR096: 1, AR061: 1, AR055: 0, AR033: 0, AR104: 0 L0731: 14, L0756: 9, H0521: 6, L0758: 6, L0759: 6, H0556: 5, L0659: 5,				120-148, 100-121, 158-175

L0783: 5, H0659: 4, S0360: 3, H0413: 3, L0598: 3, L0770: 3, L0791: 3, L0665: 3, S0126: 3, S0378: 3, L0755: 3, H0624: 2, H0171: 2, S0358: 2, H0580: 2, H0645: 2, T0060: 2, H0156: 2, H0042: 2, H0263: 2, H0046: 2, S0003: 2, H0591: 2, H0616: 2, H0641: 2, H0646: 2, S0344: 2, L0369: 2, L0662: 2, L0776: 2, L0663: 2, S0027: 2, L0779: 2, H0667: 2, S0192: 2, H0543: 2, H0422: 2, H0170: 1, H0713: 1, S0114: 1, S0134: 1, H0583: 1, H0341: 1, S0212: 1, H0661: 1, S0418: 1, S0444: 1, S0408: 1, S0468: 1, S0045: 1, S0476: 1, H0639: 1, L0717: 1, H0411: 1, H0441: 1, H0370: 1, H0331: 1, H0574: 1, H0075: 1, H0581: 1, H0052: 1, H0123: 1, S0050: 1, H0014: 1, T0010: 1, H0266: 1, S0250: 1, H0644: 1, L0142: 1, H0628: 1, H0617: 1, H0032: 1, H0383: 1, H0169: 1, S0036: 1.
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490	HMAEP64	852960	500	167 - 952	1905	Glu-167 to Met-172, Pro-208 to Arg-218, Arg-243 to Ser-253, Ser-255 to Gly-262.	H0551: 1, T0067: 1, H0380: 1, H0264: 1, H0412: 1, H0625: 1, S0142: 1, L0762: 1, L0763: 1, L0641: 1, L0773: 1, L0768: 1, L0766: 1, L0803: 1, L0650: 1, L0523: 1, L0806: 1, L0653: 1, L0526: 1, L0519: 1, L0647: 1, L0789: 1, L0790: 1, L0666: 1, L0664: 1, S0374: 1, L0438: 1, H0519: 1, H0689: 1, H0690: 1, H0670: 1, H0666: 1, L0602: 1, S0152: 1, H0696: 1, S0146: 1, H0555: 1, H0576: 1, S0037: 1, S3014: 1, L0744: 1, L0439: 1, L0740: 1, L0754: 1, L0750: 1, L0786: 1, L0752: 1, L0757: 1, S0436: 1, L0591: 1, S0026: 1, H0136: 1, S0242: 1, S0276: 1, S0196: 1, H0423: 1 and H0293: 1.				48-74, 218-241, 91-110, 173-191, 146-162
						AR061: 9, AR089: 5, AR060: 5, AR033: 5, AR055: 5, AR052: 4, AR096: 4, AR039: 3, AR053: 2, AR104: 2 S0278: 3, H0641: 3, S0142: 3, H0521: 3, H0271:					

491	HTYSK68	852980	501	38 - 454	1906	Lys-2 to Glu-21, Lys-34 to Ser-42, Ile-118 to Pro-123.	2, L0770: 2, L0794: 2, L0748: 2, L0777: 2, L0599: 2, H0583: 1, H0650: 1, H0657: 1, H0656: 1, H0663: 1, H0638: 1, S0358: 1, S0376: 1, H0545: 1, S0388: 1, H0594: 1, S0144: 1, S0344: 1, L0763: 1, L0646: 1, L0648: 1, L0767: 1, L0766: 1, L0650: 1, L0775: 1, L0787: 1, L0664: 1, S0216: 1, H0576: 1, H0727: 1, L0756: 1, L0757: 1, S0260: 1 and S0436: 1.					97-113
492	HDAAD50	852987	502	73 -	1907	Ala-25 to Gly-32.	AR033: 2, AR104: 2, AR055: 2, AR039: 2, AR060: 1, AR052: 1, AR061: 1, AR089: 1, AR053: 1, AR096: 0 L0663: 2, L0439: 2, L0731: 2, H0663: 1, H0497: 1, H0486: 1, H0124: 1, S0036: 1, H0116: 1, H0623: 1, L0633: 1, L0783: 1, L0438: 1, H0547: 1, H0670: 1, S0404: 1, L0748: 1, L0747: 1, L0485: 1, H0667: 1 and H0422: 1.					154-171,

493	HNTNC03	853174	503	28 - 408	1908	1335	AR089: 5, AR033: 5, AR053: 4, AR039: 3, AR060: 3, AR061: 2, AR104: 2, AR055: 2 L0439: 9, L0766: 7, H0251: 5, L0740: 5, L0803: 4, L0794: 3, L0665: 3, H0445: 3, H0156: 2, L0764: 2, L0655: 2, L0518: 2, L0809: 2, L0754: 2, L0747: 2, L0756: 2, L0777: 2, L0759: 2, L0362: 2, S0424: 2, H0171: 1, H0638: 1, S0360: 1, H0580: 1, S0046: 1, H0351: 1, S6014: 1, H0586: 1, H0497: 1, H0574: 1, L0021: 1, S0010: 1, H0596: 1, S0036: 1, H0090: 1, H0591: 1, H0509: 1, L0662: 1, L0768: 1, L0650: 1, L0775: 1, L0806: 1, L0659: 1, H0144: 1, H0702: 1, S0374: 1, H0435: 1, H0648: 1, H0672: 1, H0521: 1, L0752: 1, L0758: 1, S0260: 1, H0667: 1, H0423: 1 and L0465: 1.				6-22
							AR096: 8, AR039: 6, AR089: 6, AR104: 5, AR060: 4, AR033: 3.			93-121, 56-73, 36- 52	

494	HCFNG65	853186	504	42 - 908	1909				AR053: 3, AR052: 3, AR055: 2, AR061: 1 L0748: 4, S0358: 2, L0754: 2, L0756: 2, L0758: 2, H0222: 1, S0212: 1, H0580: 1, H0351: 1, T0039: 1, H0590: 1, H0318: 1, T0071: 1, H0015: 1, S6028: 1, S0036: 1, T0069: 1, H0130: 1, H0646: 1, L0646: 1, L0773: 1, L0662: 1, L0766: 1, L0803: 1, L0666: 1, L0665: 1, H0520: 1, H0547: 1, S0136: 1, H0521: 1, H0696: 1, S0028: 1, L0743: 1, L0745: 1, L0750: 1, L0777: 1, L0759: 1, S0434: 1 and L0596: 1.				56-73, 225-241
									AR039: 2, AR096: 1, AR089: 1, AR104: 1, AR033: 1, AR052: 0, AR061: 0, AR060: 0, AR053: 0, AR055: 0 L0748: 12, L0766: 11, L0439: 8, L0803: 7, S0136: 6, L0758: 4, L0438: 3, L0751: 3, L0749: 3, H0624: 2, H0318: 2, H0014: 2, H0553: 2, S0422: 2, L0794: 2, L0663: 2, H0144: 2,				

495	HLMMI85	853213	505	787 - 311	1910	Asp-22 to Gln-30, Lys-80 to Gly-91.	H0555: 2, S3014: 2, L0744: 2, L0747: 2, L0485: 2, H0423: 2, H0171: 1, H0657: 1, S0358: 1, H0637: 1, S0050: 1, H0028: 1, H0412: 1, L0351: 1, L0475: 1, H0633: 1, L0662: 1, L0655: 1, L0659: 1, L0518: 1, L0793: 1, L0666: 1, L0664: 1, S0328: 1, S0380: 1, S0350: 1, H0521: 1, H0704: 1, L0743: 1, L0759: 1 and H0668: 1.					138-155, 119-135
496	HBGMMZ39	853966	506	87 - 590	1911	Arg-17 to Phe-28, Asp-35 to Asp-43, Gly-53 to Ala-60, Gln-127 to Trp-134, Val-156 to Lys-165.	AR055: 9, AR052: 6, AR096: 6, AR060: 6, AR061: 6, AR033: 5, AR089: 4, AR053: 4, AR104: 3, AR039: 3 H0483: 1, H0255: 1, H0600: 1, H0310: 1, L0766: 1, H0436: 1 and H0543: 1.					90-107

497	HHEIA70	854202	507	298 - 831	1912	Asp-9 to Ser-18, Ala-27 to Asn-34, Val-63 to Leu-69, Thr-91 to Thr-103, Lys-143 to Asn-148, Thr-160 to Ile-173.	AR039: 39, AR053: 29, AR096: 27, AR052: 25, AR033: 20, AR104: 16, AR089: 10, AR060: 9, AR055: 8, AR061: 5 L0754: 6, S0422: 5, H0547: 5, L0471: 4, L0750: 4, L0362: 4, S0360: 3, H0318: 3, H0581: 3, S0003: 3, H0646: 3, L0740: 3, L0758: 3, H0542: 3, H0265: 2, H0556: 2, H0341: 2, H0497: 2, S6028: 2, H0090: 2, H0591: 2, H0494: 2, L0770: 2, L0655: 2, L0663: 2, S0428: 2, H0144: 2, H0659: 2, H0658: 2, H0672: 2, H0521: 2, L0439: 2, L0777: 2, L0752: 2, L0755: 2, L0731: 2, L0599: 2, L0608: 2, H0422: 2, H0686: 1, S0040: 1, S6024: 1, H0661: 1, H0663: 1, H0638: 1, S0420: 1, S0354: 1, S0358: 1, S0408: 1, S0476: 1, L0717: 1, H0261: 1, H0549: 1, H0455: 1, H0586: 1, L0586: 1, H0635: 1, S0010: 1, H0569: 1, H0620: 1, H0350: 1, H0201: 1,				100-120
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498	HNTNA78	854267	508	179 - 538	1913	Asn-83 to Lys-88, Ala-113 to Glu-119.	S0051: 1, H0179: 1, H0271: 1, S0214: 1, H0644: 1, H0628: 1, H0616: 1, H0264: 1, S0352: 1, S0440: 1, H0641: 1, S0344: 1, H0529: 1, L0520: 1, L0763: 1, L0769: 1, L0667: 1, L0772: 1, L0373: 1, L0646: 1, L0521: 1, L0768: 1, L0649: 1, L0775: 1, L0806: 1, L0652: 1, L0807: 1, L0657: 1, L0659: 1, L0647: 1, L0792: 1, S0053: 1, H0702: 1, S0122: 1, H0648: 1, H0539: 1, S0152: 1, H0522: 1, H0696: 1, S0406: 1, H0626: 1, L0751: 1, L0747: 1, L0756: 1, L0779: 1, L0759: 1, S0031: 1, S0260: 1, H0445: 1, L0592: 1, L0601: 1, H0423: 1, H0506: 1 and H0352: 1.				51-69, 96- 112
							AR039: 5, AR096: 3, AR033: 3, AR053: 3, AR060: 3, AR089: 3, AR104: 3, AR055: 2, AR052: 2, AR061: 1 H0351: 11, L0439: 5, H0090: 3, H0616: 3, L0803: 3, L0777: 3, S0222: 2,				

499	HOVAN91	854277	509	288 - 605	1914	Pro-57 to Trp-62.	AR039: 7, AR096: 5, AR052: 4, AR104: 4, AR033: 3, AR053: 3, AR089: 3, AR055: 3, AR060: 3, AR061: 2	H0013: 2, H0318: 2, H0032: 2, L0794: 2, L0766: 2, L0806: 2, L0659: 2, L0565: 2, H0436: 2, L0740: 2, H0170: 1, H0341: 1, S0001: 1, H0671: 1, H0663: 1, H0675: 1, H0550: 1, H0486: 1, H0590: 1, H0196: 1, H0596: 1, N0006: 1, H0569: 1, L0471: 1, S0003: 1, H0428: 1, H0031: 1, H0211: 1, H0591: 1, H0551: 1, H0560: 1, H0652: 1, L0638: 1, L0646: 1, L0662: 1, L0804: 1, L0650: 1, L0776: 1, L0655: 1, L0606: 1, L0636: 1, L0809: 1, L0792: 1, L0666: 1, S0148: 1, L0438: 1, H0520: 1, H0435: 1, H0659: 1, S0406: 1, S0028: 1, L0750: 1, L0779: 1, L0752: 1, L0755: 1, L0731: 1, L0758: 1, S0031: 1, S0260: 1, S0242: 1 and H0422: 1.					73-89, 26- 42
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500	HL YER32	854463	510	774 - 442	1915				L0438: 6, L0439: 6, L0776: 5, H0428: 4, L0805: 4, H0687: 3, L0770: 3, H0651: 3, L0789: 2, L0756: 2, L0758: 2, L0361: 2, S0212: 1, S0001: 1, H0351: 1, H0052: 1, H0327: 1, H0178: 1, L0769: 1, L0767: 1, L0794: 1, L0807: 1, L0759: 1 and L0608: 1.				69-85	
501	HFPEL47	854659	511	98 - 604	1916	Leu-46 to Trp-52, Glu-90 to Arg-96, Leu-151 to Asp-159.			AR096: 4, AR052: 3, AR033: 2, AR104: 2, AR061: 2, AR053: 2, AR089: 1, AR060: 1, AR055: 1, AR039: 0 L0805: 3, L0776: 3, L0766: 2, L0748: 2, L0747: 2, L0750: 2, L0485: 2, S0001: 1, L0534: 1, S0360: 1, H0580: 1, S6014: 1, H0036: 1, S0051: 1, H0188: 1, H0379: 1, S0440: 1, L0761: 1, L0800: 1, L0651: 1, L0659: 1, L0517: 1, L0787: 1, H0593: 1, S0260: 1 and H0445: 1.			Xp22.1- p21.3	300018, 300075, 300077.	106-135

502	HTPLJ41	854779	512	551 - 1507	1917	Pro-87 to Tyr-99, Pro-102 to Tyr-117, Arg-144 to Trp-150, Phe-164 to Ile-180, Trp-293 to Tyr-307.	AR053: 2, AR096: 1, AR104: 1, AR039: 1 S0222: 1	300200, 301200, 301220, 302350, 306000, 306000, 306100, 307030, 307800, 309470, 309510, 309585, 311770, 312040, 312170, 312612, 312700, 313400	245-262, 207-223
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503	HNTNC49	855013	513	40 - 1020	1918	Arg-80 to Gly-86, Gly-103 to Leu-110.	S0328: 2, S0152: 2, S3014: 2, L0439: 2, L0740: 2, L0747: 2, L0779: 2, L0599: 2, H0638: 1, H0411: 1, H0550: 1, H0069: 1, H0427: 1, L0021: 1, S0010: 1, L0105: 1, H0309: 1, H0572: 1, H0083: 1, S0003: 1, S0214: 1, H0169: 1, H0674: 1, H0561: 1, S0464: 1, H0647: 1, S0210: 1, L0369: 1, L0769: 1, L0764: 1, L0648: 1, L0662: 1, L0768: 1, L0803: 1, L0806: 1, L0790: 1, H0520: 1, S0126: 1, S0122: 1, H0521: 1, H0522: 1, S0044: 1, S0406: 1, H0436: 1, S3012: 1, L0754: 1, L0745: 1, L0746: 1, L0750: 1, L0780: 1, L0759: 1, L0601: 1, S0192: 1 and S0424: 1.				236-252
						AR039: 26, AR053: 18, AR052: 18, AR089: 17, AR096: 16, AR104: 16, AR033: 16, AR060: 13, AR055: 9, AR061: 5 L0769: 10, L0659: 10, L0766: 7, L0748: 7, L0747: 7, L0750: 7, L0665: 6,					

	L0743: 6, L0779: 6, L0754: 5, L0758: 5, L0761: 4, L0771: 4, L0662: 4, L0731: 4, H0620: 3, T0006: 3, H0617: 3, L0520: 3, L0774: 3, L0776: 3, L0809: 3, L0439: 3, L0777: 3, L0595: 3, H0657: 2, H0580: 2, H0156: 2, H0618: 2, H0253: 2, H0081: 2, L0471: 2, H0012: 2, S0366: 2, S0038: 2, H0130: 2, L0770: 2, L0768: 2, L0794: 2, L0806: 2, L0805: 2, L0657: 2, L0666: 2, L0663: 2, H0672: 2, H0539: 2, H0696: 2, L0740: 2, L0752: 2, L0759: 2, S0031: 2, L0599: 2, H0543: 2, H0295: 1, S0116: 1, H0341: 1, H0402: 1, H0305: 1, H0589: 1, H0638: 1, S0418: 1, S0356: 1, S0358: 1, S0360: 1, H0208: 1, H0619: 1, H0441: 1, H0455: 1, H0587: 1, H0333: 1, L0623: 1, H0486: 1, L0021: 1, H0599: 1, H0108: 1, H0042: 1, S0010: 1, H0581: 1, H0546: 1, H0545: 1, H0046: 1, H0050: 1.					
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504	HLTCO94	855239	514	238 - 612	1919	Ser-2 to Tyr-8.	H0057: 1, H0266: 1, H0188: 1, H0687: 1, H0039: 1, H0622: 1, H0424: 1, H0181: 1, H0383: 1, H0166: 1, H0673: 1, H0135: 1, H0090: 1, H0038: 1, H0087: 1, T0067: 1, H0623: 1, H0100: 1, S0112: 1, T0041: 1, H0494: 1, H0560: 1, L0763: 1, L0638: 1, L0373: 1, L0646: 1, L0800: 1, L0642: 1, L0643: 1, L0644: 1, L0764: 1, L0649: 1, L0386: 1, L0804: 1, L0650: 1, L0651: 1, L0540: 1, L0542: 1, L0783: 1, L0545: 1, L0367: 1, L0789: 1, L0792: 1, L0664: 1, L0438: 1, H0520: 1, H0547: 1, H0689: 1, H0670: 1, H0651: 1, S0380: 1, H0436: 1, L0744: 1, L0749: 1, L0756: 1, L0780: 1, L0755: 1, H0445: 1, H0595: 1, L0596: 1, L0591: 1 and L0608: 1. AR052: 18, AR053: 14, AR033: 7, AR096: 7, AR089: 6, AR060: 5, AR104: 5, AR055: 5, AR039: 3, AR061: 3				81-100, 13-29
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	H0694: 121, L0749: 14, L0439: 10, S0192: 9, H0656: 7, L0750: 7, L0731: 6, S0152: 5, L0740: 5, L0794: 4, L0747: 4, H0052: 3, S0003: 3, L0770: 3, L0769: 3, L0764: 3, L0803: 3, L0776: 3, L0438: 3, S0026: 3, H0341: 2, S0376: 2, S0408: 2, L0471: 2, H0014: 2, H0510: 2, L0598: 2, L0763: 2, L0765: 2, L0662: 2, L0388: 2, L0774: 2, L0805: 2, L0809: 2, L0789: 2, H0670: 2, L0602: 2, S0028: 2, L0751: 2, L0779: 2, L0752: 2, L0757: 2, H0542: 2, H0423: 2, H0422: 2, H0171: 1, H0686: 1, S0114: 1, T0049: 1, H0657: 1, H0661: 1, H0402: 1, S0444: 1, S0360: 1, S0222: 1, H0441: 1, H0442: 1, H0497: 1, H0574: 1, L0021: 1, H0575: 1, H0581: 1, T0115: 1, H0569: 1, S0051: 1, H0083: 1, H0375: 1, S0214: 1, H0328: 1, H0039: 1, H0644: 1, H0090: 1, H0616: 1, H0623: 1.							
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505	HBIMT77	855274	515	336 - 743	1920	Lys-8 to Gly-15, Arg-29 to Ala-34, Asp-65 to Pro-70.	<p>H0059: 1, H0100: 1, S0142: 1, S0002: 1, L0369: 1, L0637: 1, L0646: 1, L0771: 1, L0363: 1, L0766: 1, L0649: 1, L0381: 1, L0804: 1, L0654: 1, L0606: 1, L0659: 1, L0783: 1, L0544: 1, L0663: 1, S0374: 1, L0352: 1, H0520: 1, H0547: 1, H0683: 1, H0660: 1, S0328: 1, H0539: 1, H0522: 1, L0742: 1, L0748: 1, L0756: 1, L0777: 1, L0758: 1, L0759: 1, H0445: 1, S0434: 1, S0436: 1, L0599: 1, L0601: 1, H0653: 1 and H0543: 1.</p> <p>AR053: 4, AR033: 2, AR089: 2, AR055: 1, AR096: 1, AR104: 1, AR061: 1, AR060: 1, AR039: 0, AR052: 0 L0758: 6, L0794: 4, L0764: 3, L0809: 3, S0360: 2, H0253: 2, H0196: 2, H0052: 2, H0150: 2, H0024: 2, H0424: 2, H0606: 2, L0770: 2, L0803: 2, H0547: 2, H0593: 2, L0747: 2, L0759: 2, L0485: 2, S6024:</p>				42-62
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506	HTLIV70	855314	516	94 - 1047	1921	Asp-36 to Ser-42.	1, H0657: 1, H0341: 1, H0402: 1, S0046: 1, H0549: 1, H0608: 1, H0587: 1, H0618: 1, H0546: 1, H0123: 1, H0081: 1, H0099: 1, H0271: 1, H0328: 1, H0124: 1, H0040: 1, H0116: 1, L0475: 1, L0761: 1, L0646: 1, L0662: 1, L0363: 1, L0806: 1, L0635: 1, L0790: 1, S0330: 1, H0521: 1, L0611: 1, L0439: 1, L0751: 1 and L0749: 1.					73-90, 152-168, 51-67, 270-286, 207-223
507	HFADF33	855433	517	532 - 197	1922	Met-1 to His-23, Asp-64 to Ser-79.	AR039: 18, AR033: 17, AR089: 15, AR052: 14, AR055: 13, AR053: 13, AR061: 9, AR096: 9, AR060: 8, AR104: 6 H0618: 2, S0031: 2, H0545: 1, S0050: 1, H0031: 1, H0124: 1, H0130: 1, H0646: 1, H0521: 1, S0432: 1, L0601: 1 and L0600: 1.					91-109



508	HETJQ73	855453	518	538 - 1269	1923	Met-I to Pro-7, Leu-55 to Tyr-60, Glu-67 to Leu-77, Arg-110 to Phe-115, Glu-218 to Lys-223.	L0742: 8, L0769: 6, L0351: 5, S0222: 4, H0052: 4, T0010: 4, S6024: 3, L0768: 3, L0779: 3, L0759: 3, H0455: 2, L0794: 2, L0776: 2, L0438: 2, S0001: 1, L0534: 1, S0049: 1, S0051: 1, S0038: 1, L0763: 1, L0770: 1, L0805: 1, L0745: 1, L0777: 1, L0753: 1 and L0758: 1.					163-202, 134-159, 223-241, 113-131, 199-215, 156-172
							AR061: 56, AR055: 8, AR089: 6, AR060: 6, AR096: 6, AR052: 5, AR053: 4, AR033: 4, AR104: 3, AR039: 2 H0046: 9, L0766: 8, L0731: 6, L0779: 5, L0800: 4, S0003: 3, S0408: 2, H0494: 2, S0422: 2, L0803: 2, L0804: 2, L0805: 2, L0776: 2, L0655: 2, L0748: 2, L0754: 2, S0412: 2, H0306: 1, S0418: 1, S0444: 1, S0222: 1, H0611: 1, L0163: 1, H0266: 1, S0214: 1, L0483: 1, L0055: 1, L0455: 1, H0038: 1, H0063: 1, H0413: 1, S0440: 1, L0770: 1, L0771: 1, L0521:					

509	HAGGV44	855714	519	298 - 606	1924		1, L0806: 1, L0653: 1, L0659: 1, L0790: 1, L0666: 1, L0663: 1, S0126: 1, H0690: 1, H0684: 1, H0658: 1, H0710: 1, H0521: 1, H0478: 1, S0206: 1, L0740: 1, L0751: 1, L0750: 1, L0777: 1, L0758: 1, L0605: 1, L0595: 1, S0192: 1, H0543: 1, H0423: 1 and S0424: 1.					37-55, 60- 76, 79-95
							AR055: 10, AR033: 6, AR060: 5, AR089: 5, AR061: 4, AR052: 4, AR053: 4, AR096: 3, AR039: 3, AR104: 3 L0777: 14, L0769: 3, L0803: 3, L0805: 3, L0742: 3, L0439: 3, S0346: 2, L0766: 2, H0658: 2, L0749: 2, L0752: 2, L0407: 1, L0415: 1, S0116: 1, H0306: 1, H0305: 1, H0351: 1, H0441: 1, H0392: 1, H0486: 1, L0586: 1, H0427: 1, S0010: 1, T0048: 1, H0251: 1, L0471: 1, H0687: 1, H0428: 1, H0124: 1, H0413: 1, H0517: 1, L0369: 1, L0638: 1, L0775: 1, L0651:					

510	HTTDM15	856108	520	38 - 778	1925			1, L0776: 1, L0518: 1, L0789: 1, L0792: 1, L0438: 1, L0352: 1, S0380: 1, S0188: 1, S0146: 1, H0576: 1, L0740: 1, L0747: 1, L0756: 1, L0779: 1, L0755: 1, L0759: 1, S0260: 1, L0601: 1, S0192: 1 and H0423: 1.				133-149, 17-33, 109-125	
511	HADCY76	856212	521	208 - 567	1926	Glu-40 to Phe-45.		AR052: 12, AR055: 11, AR053: 10, AR089: 9, AR096: 9, AR033: 8, AR060: 8, AR061: 7, AR104: 5, AR039: 5 L0748: 4, H0441: 2, H0333: 2, H0670: 2, H0660: 2, L0439: 2, L0747: 2, L0601: 2, S0218: 1, H0650: 1, H0656: 1, H0254: 1, H0255: 1, H0013: 1, H0327: 1, H0266: 1, H0070: 1, H0040: 1, T0042: 1, L0809: 1, L0790: 1, L0792: 1, H0689: 1, H0435: 1, H0134: 1, L0741: 1, L0759: 1 and S0042: 1.				48-65	

512	HDPXW75	856251	522	21 - 548	1927	Ser-4 to Ser-11.	AR061: 0, AR033: 0, AR052: 0 L0749: 3, H0346: 1, H0370: 1, H0427: 1 and L0439: 1.				52-69, 160-176	
513	HMCDC50	856301	523	103 - 525	1928	Gly-5 to Asp-11.	AR039: 3, AR096: 2, AR104: 2, AR089: 2, AR052: 1, AR061: 1, AR053: 0, AR033: 0, AR060: 0, AR055: 0 S0278: 1, H0521: 1 and L0740: 1.				122-138	
514	HMADZ55	856326	524	33 - 743	1929	His-11 to Tyr-17.	AR060: 167, AR055: 164, AR061: 136, AR033: 116, AR039: 97, AR104: 97, AR053: 89, AR089: 83, AR052: 73, AR096: 70 S0142: 4, H0581: 1, S0250: 1 and H0521: 1. AR033: 3, AR061: 3, AR053: 3, AR060: 2, AR089: 2, AR104: 2, AR096: 2, AR055: 1, AR039: 0, AR052: 0 S0144: 5, S0278: 3, S0142: 2, S0426: 2, L0665: 2, L0748: 2, H0556: 1, H0583: 1, H0644: 1, H0617: 1, H0606: 1, H0090: 1, S0002:				127-158, 157-185, 106-125, 49-65, 205-221	

515	HTXNB76	856497	525	617 - 315	1930	Met-1 to Asn-13.	1, L0770: 1, L0767: 1, L0375: 1, L0659: 1, L0791: 1, H0689: 1, H0518: 1 and L0758: 1. AR096: 2, AR039: 2, AR089: 1, AR053: 1, AR033: 1, AR061: 1, AR060: 1, AR055: 1, AR104: 0, AR052: 0 L0766: 6, L0748: 5, H0556: 3, H0090: 2, L0655: 2, H0580: 1, H0581: 1, L0040: 1, L0055: 1, H0591: 1, H0396: 1, H0641: 1, L0761: 1, L0772: 1, L0794: 1, L0387: 1, L0606: 1, L0666: 1, L0664: 1, H0659: 1, S0378: 1, L0779: 1, H0445: 1 and H0542: 1.	83-101		
516	HLWDD49	856506	526	127 - 465	1931	Trp-9 to Gly-24, Gly-27 to Gln-34.	AR096: 1, AR033: 1, AR089: 1, AR060: 1, AR061: 0, AR052: 0, AR039: 0, AR104: 0, AR053: 0, AR055: 0 H0254: 1, H0553: 1, H0429: 1, H0538: 1 and H0520: 1.	87-105		
517	HLQGX48	856704	527	921 - 1436	1932	Gly-59 to Pro-68, Gln-87 to Lys-96,	AR039: 30, AR055: 28, AR033: 25, AR053: 19,	21-51, 146-164,		

518	H2CBH17	856745	528	335 - 2263	1933	Leu-27 to Ser-35, Pro-64 to Gly-70, Glu-86 to Thr-92, Ser-100 to Glu-105, Arg-135 to Arg-140, Thr-366 to Cys-378, Asp-395 to His-400, Glu-436 to Arg-442, Glu-478 to Asn-486, Ser-530 to Asp-538, Glu-614 to Gly-625, Ile-637 to Leu-643.	Gly-120 to Cys-125.	AR060: 19, AR089: 16, AR052: 15, AR104: 14, AR061: 12, AR096: 12 L0766: 15, L0805: 5, H0632: 2, L0789: 2, L0740: 2, H0395: 1, H0656: 1, H0341: 1, H0574: 1, H0647: 1, S0422: 1, L0761: 1, L0794: 1, L0776: 1, L0515: 1, S0216: 1, H0144: 1, H0682: 1, H0660: 1 and L0755: 1.			127-143, 69-85
						AR096: 7, AR033: 7, AR052: 7, AR060: 6, AR053: 5, AR089: 5, AR055: 4, AR104: 4, AR039: 3, AR061: 2 L0438: 9, L0439: 4, H0170: 3, H0615: 3, S0378: 3, L0750: 3, H0553: 2, H0090: 2, H0529: 2, L0764: 2, L0803: 2, L0804: 2, L0775: 2, L0652: 2, L0659: 2, L0809: 2, H0144: 2, S0028: 2, L0748: 2, L0745: 2, L0779: 2, L0777: 2, L0759: 2, L0591: 2, H0624: 1, S0356: 1, S0376: 1, S0360: 1, L0717: 1, S0278: 1, H0369: 1, H0431: 1			321-338, 581-598, 459-475, 285-301, 213-229, 177-193		

519	HLQEF25	856748	529	70 - 432	1934	Pro-17 to Gly-31.	H0586: 1, H0574: 1, H0013: 1, H0427: 1, H0122: 1, H0052: 1, T0110: 1, L0118: 1, H0050: 1, H0024: 1, H0051: 1, H0594: 1, S0003: 1, H0031: 1, H0644: 1, H0591: 1, H0038: 1, H0551: 1, H0264: 1, L0435: 1, T0042: 1, H0131: 1, S0142: 1, S0210: 1, L0637: 1, L0772: 1, L0800: 1, L0773: 1, L0794: 1, L0766: 1, L0375: 1, L0657: 1, L0665: 1, H0547: 1, S0126: 1, H0684: 1, H0660: 1, H0672: 1, H0518: 1, S0136: 1, H0436: 1, L0747: 1, L0756: 1, L0752: 1, H0445: 1, L0595: 1, H0667: 1, H0543: 1, L0697: 1 and S0424: 1. AR055: 6, AR061: 6, AR060: 3, AR053: 3, AR096: 3, AR033: 3, AR089: 2, AR052: 2, AR039: 2, AR104: 1 L0604: 8, L0485: 6, L0748: 5, L0777: 3, S0438: 2, L0809: 2, H0722: 1, H0574: 1, H0041: 1, H0708: 1, S0366: 1, L0747: 1				99-121
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520	HTOHA37	856923	530	12 - 881	1935				L0749: 1, L0780: 1 and L0759: 1. AR096: 3, AR089: 3, AR055: 3, AR060: 2, AR033: 2, AR053: 2, AR052: 1, AR061: 1, AR104: 1, AR039: 0 H0585: 8, H0265: 3, H0141: 2, S0360: 2, H0251: 2, H0031: 2, H0551: 2, H0529: 2, L0519: 2, L0545: 2, L0664: 2, H0668: 2, S0040: 1, T0049: 1, H0656: 1, H0255: 1, S0376: 1, S0132: 1, H0546: 1, H0375: 1, S0314: 1, H0428: 1, H0039: 1, H0553: 1, L0055: 1, H0264: 1, H0561: 1, H0509: 1, L0643: 1, L0803: 1, L0651: 1, L0378: 1, L0776: 1, L0659: 1, L0790: 1, L0666: 1, H0519: 1, S0126: 1, H0521: 1, H0576: 1, L0777: 1, L0755: 1, L0731: 1, L0757: 1, L0759: 1, H0665: 1, S0194: 1 and S0458: 1.			41-57, 101-117
521	HLHAW26	856982	531	299 - 613	1936				AR055: 12, AR061: 7, AR052: 7, AR060: 7.		34-51	



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522	HKAAZ46	857100	532	281 - 679	1937	Asn-26 to Asn-31, Ser-67 to Ala-74, Ile-105 to Lys-110.			AR039: 23, AR053: 14, AR096: 11, AR033: 11, AR104: 10, AR052: 9, AR089: 9, AR055: 7, AR060: 7, AR061: 4 H0494: 1									79-104, 109-127, 47-63	
523	HAQAF12	857311	533	45 - 653	1938	Ala-5 to Lys-36, Ser-41 to Leu-80, Gly-98 to Gly-112, Gly-198 to Asp-203.			AR039: 32, AR053: 22, AR033: 19, AR052: 18, AR089: 17, AR055: 17, AR104: 13, AR096: 13, AR060: 12, AR061: 10 H0295: 1 and S0330: 1.									127-150, 160-176	
524	HTXEX35	857404	534	263 - 793	1939	Gln-56 to Pro-65, Pro-70 to Asn-76, Gly-85 to Trp-94, Arg-103 to Ser-108.			AR055: 7, AR052: 6, AR053: 5, AR033: 4, AR061: 4, AR096: 4, AR060: 4, AR089: 4, AR039: 3, AR104: 1 L0439: 4, L0748: 3, L0731: 3, H0265: 2, H0015: 2, H0083: 2, H0040: 2, L0764: 2, L0766: 2, L0543: 2, S0027: 2, L0758: 2, L0759: 2, L0604: 2, H0685: 1, H0656: 1, S0360: 1,									134-152	

525	HE8TE64	857478	535	151 - 831	1940	Gln-14 to Ala-21, Leu-45 to Arg-51, Arg-54 to Asp-61, Ser-88 to Ile-95, Leu-111 to Gln-117.	S0045: 1, L0717: 1, S0222: 1, H0156: 1, H0575: 1, H0046: 1, H0014: 1, H0266: 1, H0687: 1, H0166: 1, H0674: 1, H0529: 1, L0769: 1, L0645: 1, L0363: 1, L0768: 1, L0806: 1, L0557: 1, L0776: 1, L0789: 1, L0665: 1, L0438: 1, H0682: 1, H0648: 1, L0779: 1, L0752: 1, H0444: 1, L0608: 1, H0668: 1 and H0423: 1.				130-162, 171-187
526	HL3AC38	857623	536	87 - 872	1941		AR061: 4, AR033: 3, AR055: 3, AR053: 3, AR060: 2, AR104: 2, AR089: 2, AR039: 1, AR052: 1, AR096: 1 H0013: 1 and S0250: 1. AR055: 13, AR033: 11, AR053: 10, AR052: 9, AR089: 8, AR060: 8, AR061: 6, AR096: 4, AR104: 4, AR039: 3 S0418: 2, H0046: 2, H0542: 2, H0341: 1, H0421: 1, H0052: 1, L0471: 1, S0022: 1, H0038: 1, H0433: 1, H0560: 1, H0132: 1, S0374: 1, S3014: 1, L0759:				70-87, 119-135

527	HMUAO31	857664	537	11 - 955	1942	Gln-68 to Gln-74.	1 and S0276: 1. AR039: 11, AR033: 9, AR053: 8, AR089: 7, AR052: 7, AR055: 7, AR096: 6, AR060: 5, AR061: 5, AR104: 5 H0494: 12, L0770: 12, H0657: 11, H0659: 9, L0774: 8, L0776: 8, H0648: 8, L0755: 8, S0410: 6, L0769: 6, L0766: 6, L0750: 6, H0638: 5, S0408: 5, H0559: 5, S0440: 5, L0775: 5, H0520: 5, H0556: 4, H0341: 4, S0418: 4, S0358: 4, S0376: 4, S0360: 4, H0617: 4, L0665: 4, L0748: 4, L0777: 4, L0752: 4, L0759: 4, S0434: 4, S0420: 3, H0253: 3, H0424: 3, H0616: 3, H0560: 3, L0374: 3, H0144: 3, L0439: 3, L0740: 3, L0747: 3, L0731: 3, L0758: 3, L0596: 3, L0601: 3, S0026: 3, S0194: 3, H0170: 2, H0265: 2, H0685: 2, H0656: 2, L0415: 2, S0444: 2, S0278: 2, H0550: 2, H0257: 2, T0109: 2, H0156: 2, H0618: 2,				204-225, 142-158, 82-98, 6- 22
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H0545: 2, L0471: 2, H0620: 2, H0373: 2, H0083: 2, H0290: 2, H0031: 2, H0040: 2, H0551: 2, H0412: 2, L0065: 2, S0438: 2, H0538: 2, L0763: 2, L0772: 2, L0646: 2, L0644: 2, L0764: 2, L0662: 2, L0518: 2, L0783: 2, L0663: 2, S0374: 2, H0547: 2, H0435: 2, H0658: 2, H0670: 2, S0328: 2, L0753: 2, H0445: 2, H0665: 2, H0542: 2, H0423: 2, H0506: 2, H0624: 1, S0114: 1, S0134: 1, H0583: 1, H0650: 1, S0116: 1, H0255: 1, H0663: 1, H0662: 1, L0481: 1, H0125: 1, S0442: 1, S0354: 1, H0675: 1, H0580: 1, S0046: 1, H0619: 1, H0351: 1, H0437: 1, H0369: 1, H0431: 1, H0370: 1, H0600: 1, H0586: 1, H0587: 1, H0331: 1, H0486: 1, H0069: 1, H0575: 1, S0346: 1, H0705: 1, T0048: 1, S0182: 1, H0318: 1, H0581: 1, S0049: 1, H0052: 1, H0086: 1, H0563: 1, H0123: 1, H0081: 1,
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528	HHAWD3 3	857697	538	407 - 1132	1943	Met-1 to Ser-9, Ser-11 to Val-21, Gln-64 to Pro-69,	H0014: 1, H0510: 1, H0375: 1, H0188: 1, S0022: 1, H0428: 1, H0708: 1, S0366: 1, H0135: 1, H0634: 1, H0063: 1, H0087: 1, H0413: 1, H0623: 1, H0059: 1, S0386: 1, H0100: 1, T0042: 1, L0475: 1, H0386: 1, H0646: 1, L0598: 1, H0529: 1, L0369: 1, L0520: 1, L0762: 1, L0371: 1, L0638: 1, L0373: 1, L0773: 1, L0521: 1, L0363: 1, L0805: 1, L0655: 1, L0517: 1, L0540: 1, L0542: 1, L0526: 1, L0809: 1, L0545: 1, L0647: 1, L0789: 1, L0791: 1, H0691: 1, H0519: 1, H0689: 1, H0690: 1, H0660: 1, H0672: 1, H0651: 1, S0330: 1, H0539: 1, S0378: 1, S0380: 1, H0521: 1, S0406: 1, L0749: 1, L0780: 1, L0757: 1, L0608: 1, L0594: 1, H0668: 1, H0653: 1, H0667: 1, S0242: 1, S0276: 1 and H0422: 1.				110-135, 69-85, 47- 63
							AR033: 4, AR052: 3, AR039: 3, AR053: 3, AR104: 3, AR089: 3,				

						Thr-88 to Arg-96, Asp-106 to Gly-116.	AR096: 3, AR060: 2, AR055: 2, AR061: 2, L0757: 3, S0410: 2, H0052: 2, L0794: 2, L0766: 2, L0806: 2, L0809: 2, L0750: 2, L0593: 2, S0418: 1, L0534: 1, S0442: 1, S0408: 1, H0619: 1, H0036: 1, H0318: 1, H0009: 1, H0050: 1, H0051: 1, H0267: 1, L0455: 1, H0316: 1, H0135: 1, H0616: 1, H0412: 1, H0494: 1, S0150: 1, L0763: 1, L0768: 1, L0803: 1, L0804: 1, L0776: 1, L0542: 1, L0789: 1, H0547: 1, S0152: 1, L0740: 1, L0754: 1, L0599: 1, L0594: 1, S0196: 1, H0423: 1 and H0506: 1.			
529	HTZMB08	857723	539	90 - 404	1944	Tyr-29 to Thr-34, Pro-87 to Lys-97.	AR060: 2, AR089: 2, AR053: 1, AR061: 1, AR033: 1, AR096: 0, AR104: 0, AR055: 0, AR039: 0 S0001: 1, H0333: 1 and S3020: 1.			43-59
530	HJBCE86	857743	540	80 - 1324	1945		AR055: 11, AR052: 10, AR096: 8, AR060: 8.			128-144, 346-362.

531	HFPCK56	857809	541	429 - 869	1946	Pro-2 to His-10, Pro-13 to Gly-19, Ser-23 to Arg-29.	AR104: 8, AR039: 7, AR053: 7, AR089: 7, AR033: 7, AR061: 5 L0748: 4, H0333: 2, L0766: 2, H0556: 1, S0114: 1, S0116: 1, S0360: 1, H0438: 1, H0156: 1, H0599: 1, H0706: 1, H0590: 1, H0135: 1, H0264: 1, T0042: 1, L0783: 1, L0809: 1, L0544: 1, L0666: 1, L0663: 1, S0052: 1, L0439: 1, L0749: 1, S0434: 1, L0595: 1 and S0424: 1.				307-323
							AR096: 13, AR052: 11, AR053: 10, AR033: 10, AR089: 9, AR055: 9, AR104: 8, AR060: 8, AR061: 5, AR039: 5 L0809: 7, H0658: 6, L0748: 6, S0222: 5, L0794: 5, L0776: 5, L0756: 5, L0752: 5, L0731: 5, L0770: 4, L0662: 4, L0743: 4, L0439: 4, L0751: 4, L0754: 4, L0747: 4, L0759: 4, H0013: 3, L0769: 3, L0805: 3, L0789: 3, L0664: 3, L0740: 3, L0777: 3, L0753: 3, L0758: 3, H0333: 2,				27-51, 126-147

532	HAPSP72	857844	542	224 -	1947	Lys-99 to Tyr-110,	AR033: 7, AR055: 6, H0052: 2, H0545: 2, H0428: 2, L0483: 2, L0455: 2, H0509: 2, L0763: 2, L0771: 2, L0803: 2, L0804: 2, L0806: 2, L0527: 2, L0783: 2, L0666: 2, L0663: 2, S0152: 2, S0146: 2, L0744: 2, L0745: 2, L0603: 2, H0686: 1, S0116: 1, H0255: 1, S0418: 1, S0408: 1, H0645: 1, H0393: 1, L0717: 1, H0351: 1, H0370: 1, H0574: 1, H0156: 1, H0599: 1, H0590: 1, H0253: 1, H0390: 1, S0049: 1, H0009: 1, H0178: 1, H0071: 1, T0010: 1, H0252: 1, H0615: 1, T0006: 1, H0033: 1, H0424: 1, H0032: 1, H0124: 1, S0142: 1, L0638: 1, L0761: 1, L0641: 1, L0768: 1, L0774: 1, L0775: 1, L0657: 1, L0636: 1, L0517: 1, L0518: 1, L0665: 1, H0144: 1, H0659: 1, H0670: 1, H0660: 1, H0696: 1, H0626: 1, S0432: 1, S0027: 1, L0742: 1, L0750: 1, L0757: 1 and S0011: 1.				111-129
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					802	Pro-145 to Leu-152, Pro-177 to Thr-182.	AR052: 6, AR060: 5, AR096: 5, AR053: 5, AR089: 4, AR104: 3, AR061: 3, AR039: 2 L0777: 5, L0766: 3, L0740: 3, L0665: 2, H0521: 2, L0748: 2, L0779: 2, L0752: 2, H0624: 1, S0420: 1, S0442: 1, L0428: 1, H0619: 1, H0431: 1, H0575: 1, H0318: 1, L0719: 1, S0214: 1, H0598: 1, H0591: 1, H0616: 1, S0422: 1, L0770: 1, L0659: 1, H0520: 1, S3014: 1, L0742: 1, L0743: 1, L0744: 1, L0751: 1, L0747: 1, L0756: 1, L0759: 1 and S0242: 1.				
533	HACBM44	857913	543	107 - 490	1948	Pro-23 to Glu-29, Tyr-39 to Ser-46, Pro-69 to Asp-89, Asp-112 to Pro-117.	AR033: 13, AR096: 9, AR052: 9, AR060: 8, AR089: 8, AR053: 8, AR055: 8, AR061: 5, AR039: 4, AR104: 4 L0770: 10, L0754: 8, L0731: 8, S0358: 6, S0414: 6, H0255: 5, S0022: 4, H0627: 4, L0757: 4, H0657: 3, H0090: 3, H0539: 3, L0755: 3, L0759: 3, S0026: 3, H0556: 2, S0007: 2,				47-66

H0438: 2, S0214: 2, H0135: 2, L0764: 2, L0766: 2, L0803: 2, L0804: 2, L0806: 2, L0789: 2, L0663: 2, S0330: 2, L0740: 2, L0747: 2, L0750: 2, L0758: 2, L0596: 2, L0591: 2, S0040: 1, H0656: 1, S0001: 1, H0254: 1, S0418: 1, S0356: 1, H0229: 1, S0046: 1, H0619: 1, H0645: 1, H0550: 1, H0392: 1, H0331: 1, T0039: 1, H0635: 1, H0427: 1, S0280: 1, H0036: 1, S0010: 1, S0049: 1, H0546: 1, H0457: 1, L0471: 1, H0620: 1, H0051: 1, S0051: 1, T0010: 1, H0179: 1, S0250: 1, H0252: 1, L0143: 1, L0455: 1, S0036: 1, H0040: 1, H0616: 1, H0551: 1, H0412: 1, H0059: 1, H0494: 1, S0144: 1, S0142: 1, S0002: 1, L0521: 1, L0662: 1, L0774: 1, L0775: 1, L0809: 1, L0647: 1, H0144: 1, S0374: 1, L0438: 1, H0520: 1, H0593: 1, H0683: 1, H0684: 1, H0660: 1, H0672: 1, H0522: 1.
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534	HLTEO24	857964	544	24 - 347	1949	Leu-10 to Tyr-20, Leu-24 to Ser-30.	S0037: 1, S0028: 1, L0748: 1, L0756: 1, L0777: 1, H0343: 1, L0605: 1, L0485: 1, L0599: 1, L0593: 1, L0366: 1, S0011: 1, H0665: 1 and H0543: 1. AR055: 8, AR060: 4, AR052: 4, AR061: 4, AR033: 3, AR053: 3, AR089: 3, AR096: 2, AR104: 2, AR039: 1 H0616: 3, H0619: 1, H0457: 1, H0090: 1, H0038: 1, S0422: 1, L0804: 1 and L0754: 1.				26-58, 49- 65
535	HHFJP51	857977	545	72 - 422	1950	Cys-26 to Ser-32, Pro-66 to Arg-77.	AR055: 7, AR060: 6, AR052: 5, AR089: 5, AR033: 5, AR104: 4, AR039: 4, AR053: 4, AR096: 3, AR061: 3 H0124: 13, L0809: 7, L0601: 4, S0358: 2, L0666: 2, H0670: 2, L0439: 2, H0556: 1, S0420: 1, S0442: 1, H0619: 1, H0614: 1, H0587: 1, H0581: 1, H0457: 1, H0078: 1, H0271: 1, H0031: 1, H0617: 1, H0135: 1, L0762: 1, L0769: 1,				77-95, 100-116

536	HHFL1.87	858001	546	162 - 842	1951	Arg-17 to Trp-23, Asp-37 to Asp-45, Gln-66 to Gly-75, Ser-137 to Ala-144.	L0373: 1, L0800: 1, L0662: 1, L0363: 1, L0794: 1, L0803: 1, L0774: 1, L0775: 1, L0375: 1, L0655: 1, L0664: 1, L0665: 1, S0374: 1, H0547: 1, H0682: 1, H0658: 1, S0152: 1, L0747: 1, L0779: 1, L0596: 1 and L0592: 1. AR033: 19, AR039: 14, AR089: 10, AR055: 9, AR053: 9, AR052: 8, AR096: 6, AR060: 6, AR061: 6, AR104: 4 L0745: 13, L0769: 7, S0036: 6, L0753: 5, S0031: 5, H0052: 4, H0327: 4, H0046: 4, H0051: 4, T0006: 4, L0742: 4, L0746: 4, L0756: 4, L0752: 4, S6024: 3, S0282: 3, H0619: 3, S0388: 3, S0051: 3, L0741: 3, L0749: 3, S0222: 2, S0049: 2, S6028: 2, L0806: 2, L0776: 2, L0438: 2, L0777: 2, S0035: 1, H0662: 1, H0438: 1, L0021: 1, H0575: 1, S0182: 1, H0310: 1, H0009: 1, H0050: 1, T0010: 1, H0399: 1, H0615:					172-190, 197-213
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537	HCUDR30	858010	547	33 - 542	1952	Leu-69 to Asp-76.	1, H0604: 1, L0456: 1, L0763: 1, L0770: 1, L0630: 1, L0381: 1, L0774: 1, L0775: 1, L0805: 1, L0659: 1, L0788: 1, H0689: 1, H0684: 1, H0670: 1, H0134: 1, H0478: 1, L0612: 1, L0743: 1, L0747: 1, L0779: 1, L0758: 1, S0260: 1 and L0366: 1.					89-105, 1-17
538	HHFHI24	858020	548	75 - 431	1953	Pro-30 to His-50.	AR096: 2, AR033: 2, AR055: 2, AR053: 1, AR104: 1, AR089: 1, AR061: 1, AR060: 1, AR039: 0, AR052: 0, H0553: 2, T0049: 1, H0656: 1, H0402: 1, H0125: 1, S0045: 1, H0619: 1, H0586: 1, T0114: 1, H0581: 1, H0628: 1, H0551: 1, S0310: 1, H0520: 1, H0539: 1, H0521: 1, L0779: 1, S0434: 1 and L0485: 1.					81-97

539	HSIAI48	858030	549	163 - 573	1954				H0050: 1. AR104: 513, AR061: 376, AR055: 327, AR060: 253, AR033: 188, AR089: 172, AR039: 115, AR053: 110, AR052: 101, AR096: 87 H0036: 1, H0050: 1 and H0673: 1.				94-113, 17-33
540	HHFBP47	858073	550	517 - 945	1955				AR055: 7, AR089: 6, AR033: 5, AR096: 5, AR104: 4, AR060: 4, AR061: 4, AR039: 3, AR052: 3, AR053: 3 L0748: 2, L0749: 2, H0085: 1, H0050: 1, H0090: 1 and L0758: 1.				7-31, 56- 73, 39-55
541	HKADE35	858104	551	66 - 593	1956	Thr-30 to Ala-35, Ala-72 to Trp-83, Thr-138 to Ala-151.			AR039: 8, AR089: 2, AR052: 2, AR061: 1, AR060: 1, AR096: 0, AR033: 0, AR104: 0 L0758: 9, L0748: 6, L0747: 6, L0779: 5, L0750: 4, H0556: 3, L0804: 3, H0658: 3, H0656: 2, L0770: 2, L0769: 2, L0774: 2, H0144: 2, H0648: 2, L0439: 2, L0749: 2, L0596: 2, H0265: 1, S0444: 1, H0318: 1, H0597: 1, H0050: 1,				95-130, 120-136

542	HCFAW88	858107	552	103 - 495	1957	Ser-122 to Trp-131.	<p>H0024: 1, H0135: 1, H0090: 1, H0038: 1, H0616: 1, H0494: 1, L0065: 1, S0422: 1, H0529: 1, L0637: 1, L0764: 1, L0768: 1, L0794: 1, L0387: 1, L0803: 1, L0788: 1, L0790: 1, L0664: 1, L0438: 1, H0555: 1, L0780: 1, L0731: 1, H0444: 1, H0542: 1, H0543: 1 and H0423: 1.</p> <p>AR033: 3, AR089: 2, AR053: 2, AR055: 2, AR060: 2, AR104: 1, AR061: 1, AR096: 1, AR039: 1, AR052: 0, L0731: 9, L0803: 8, H0436: 6, L0740: 6, L0756: 6, L0805: 5, L0754: 5, L0783: 4, L0747: 4, L0749: 4, L0777: 4, H0556: 3, H0013: 3, L0771: 3, L0794: 3, L0774: 3, L0775: 3, L0809: 3, L0665: 3, L0757: 3, L0759: 3, L0599: 3, H0422: 3, H0341: 2, L0005: 2, S0046: 2, H0586: 2, H0427: 2, S0280: 2, H0201: 2, H0553: 2, H0040: 2, H0551: 2, T0042: 2, L0770:</p>					67-88, 3-30, 34-52, 96-123
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				2, L0769: 2, L0764: 2, L0766: 2, L0790: 2, H0144: 2, L0438: 2, H0547: 2, S0406: 2, L0439: 2, L0751: 2, L0750: 2, L0779: 2, L0752: 2, L0581: 2, H0543: 2, H0685: 1, S0040: 1, L0002: 1, S0418: 1, S0354: 1, S0358: 1, S0376: 1, S0045: 1, S0222: 1, H0333: 1, H0331: 1, H0492: 1, S0010: 1, H0052: 1, T0110: 1, H0327: 1, H0530: 1, H0545: 1, L0471: 1, H0620: 1, H0015: 1, H0373: 1, S0003: 1, S0214: 1, H0428: 1, H0039: 1, H0316: 1, H0591: 1, H0264: 1, S0112: 1, H0494: 1, H0560: 1, L0065: 1, H0509: 1, H0646: 1, S0144: 1, S0422: 1, H0529: 1, H0026: 1, L0372: 1, L0641: 1, L0643: 1, L0662: 1, L0768: 1, L0804: 1, L0776: 1, L0655: 1, L0659: 1, L0791: 1, L0663: 1, H0435: 1, H0539: 1, S0152: 1, H0522: 1, H0696: 1, L0748: 1, L0758: 1, H0343: 1, S0436: 1, L0589:								
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543	HISCV20	858108	553	123 - 1340	1958	Pro-58 to His-71, Thr-168 to His-174, Phe-177 to Lys-192, Gln-226 to Ser-234.	1, S0026: 1, H0136: 1, H0216: 1 and H0506: 1. AR060: 1, AR033: 1, AR089: 1, AR104: 1, AR061: 1, AR096: 0, AR053: 0, AR039: 0, AR052: 0, AR055: 0 L0752: 13, S0003: 11, L0754: 11, L0794: 9, H0521: 7, L0777: 6, H0250: 5, L0770: 5, L0766: 5, L0755: 5, S0242: 5, H0543: 5, H0046: 4, L0803: 4, L0804: 4, S0196: 4, H0556: 3, S0440: 3, H0529: 3, L0756: 3, L0599: 3, H0220: 2, H0638: 2, S0408: 2, H0486: 2, H0581: 2, S0214: 2, H0553: 2, H0652: 2, S0422: 2, L0771: 2, L0773: 2, L0775: 2, L0806: 2, L0805: 2, L0779: 2, H0542: 2, L0600: 2, H0656: 1, S0358: 1, S0360: 1, S0476: 1, H0393: 1, H0270: 1, L0021: 1, H0318: 1, H0421: 1, H0596: 1, H0572: 1, H0057: 1, H0373: 1, H0355: 1, H0375: 1, H0674: 1, H0090: 1, H0634: 1, H0646:				76-99, 314-332, 337-357, 383-400, 106-124, 141-157, 271-287, 242-258, 297-313
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544	HHEUE88	858214	554	478 - 1167	1959	Asn-5 to Glu-15.	<p>1, L0769: 1, L0372: 1, L0764: 1, L0387: 1, L0784: 1, L0607: 1, L0659: 1, L0788: 1, L0666: 1, L0663: 1, S0148: 1, H0659: 1, H0651: 1, S0328: 1, H0539: 1, S0152: 1, H0478: 1, L0748: 1, L0740: 1, L0731: 1, L0759: 1, L0362: 1, H0422: 1 and S0424: 1.</p> <p>AR033: 2, AR060: 2, AR089: 1, AR061: 1, AR096: 1, AR039: 0, AR055: 0, AR052: 0, AR104: 0, AR053: 0 L0439: 5, H0592: 2, H0039: 2, H0494: 2, L0662: 2, L0659: 2, H0521: 2, L0748: 2, S0218: 1, H0657: 1, S0418: 1, S0376: 1, S0360: 1, H0580: 1, H0431: 1, H0333: 1, L0482: 1, H0581: 1, H0596: 1, H0050: 1, H0014: 1, H0622: 1, H0038: 1, L0564: 1, H0561: 1, S0422: 1, L0770: 1, L0800: 1, L0768: 1, L0803: 1, L0805: 1, L0776: 1, L0518: 1, L0352: 1, H0520: 1, L0779: 1, L0759: 1.</p>					102-118
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545	HHESR56	858221	555	22 - 417	1960	Arg-44 to Gln-55.	<p>L0592: 1, L0593: 1, H0543: 1 and H0506: 1.</p> <p>AR053: 10, AR052: 10, AR089: 8, AR096: 7, AR033: 4, AR060: 3, AR061: 3, AR055: 2, AR104: 2, AR039: 0</p> <p>S0410: 11, L0803: 4, L0659: 4, H0618: 3, H0135: 3, L0637: 3, L0809: 3, L0666: 3, H0696: 3, L0779: 3, S0376: 2, S0132: 2, H0592: 2, H0253: 2, H0050: 2, H0087: 2, H0560: 2, L0761: 2, S0374: 2, L0743: 2, L0751: 2, L0749: 2, L0731: 2, L0759: 2, H0542: 2, H0543: 2, H0171: 1, H0225: 1, H0341: 1, S0212: 1, H0483: 1, S0444: 1, S0408: 1, H0393: 1, L0717: 1, H0370: 1, H0249: 1, H0486: 1, H0101: 1, H0250: 1, H0706: 1, T0048: 1, H0581: 1, H0545: 1, H0009: 1, H0024: 1, H0271: 1, H0288: 1, H0617: 1, S0364: 1, H0163: 1, H0551: 1, H0488: 1, H0100: 1, H0494: 1, L4497: 1, L0770: 1,</p>				73-98, 8-26, 100-116
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546	HHENU62	858281	556	91 - 477	1961	Leu-115 to Pro-129.	L0769: 1, L5575: 1, L5565: 1, L3905: 1, L0646: 1, L0764: 1, L0766: 1, L0650: 1, L0774: 1, L0378: 1, L0788: 1, L0790: 1, L0664: 1, L0665: 1, S0126: 1, H0711: 1, S0330: 1, H0436: 1, S0392: 1, S0037: 1, L0742: 1, L0755: 1, L0758: 1, H0445: 1, H0653: 1 and H0423: 1.					28-61, 91-109, 9-25, 71-87
547	HE2RG38	858353	557	54 - 1151	1962	Met-1 to Glu-8, Glu-37 to Asp-58, Gln-75 to Leu-81.	AR096: 2, AR055: 1, AR089: 1, AR061: 0, AR060: 0, AR104: 0, AR039: 0 L0766: 2, L0749: 2, H0650: 1, H0581: 1, H0252: 1, H0538: 1, L0771: 1, L0809: 1, L0747: 1, L0757: 1 and H0543: 1. AR039: 2, AR104: 1, AR096: 1, AR061: 1, AR089: 1, AR060: 1, AR053: 0, AR033: 0, AR055: 0, AR052: 0 L0761: 8, L0806: 5, H0593: 5, H0436: 5, H0581: 4, H0052: 4, L0766: 4, H0521: 4, L0745: 4, L0731: 1.					266-295, 243-266, 302-318, 82-98

				4, L0759: 4, S0356: 3, L0600: 3, H0624: 2, H0713: 2, H0333: 2, H0618: 2, H0546: 2, H0545: 2, H0457: 2, H0617: 2, H0606: 2, H0100: 2, L0770: 2, L0764: 2, L0774: 2, L0775: 2, L0653: 2, L0659: 2, L0547: 2, L0809: 2, L0666: 2, H0672: 2, H0539: 2, H0522: 2, L0751: 2, L0747: 2, L0750: 2, L0752: 2, L0757: 2, H0543: 2, H0583: 1, H0341: 1, H0484: 1, H0669: 1, H0306: 1, H0458: 1, S0418: 1, S0420: 1, H0675: 1, H0676: 1, S0045: 1, H0550: 1, H0392: 1, H0592: 1, H0586: 1, H0587: 1, H0485: 1, H0635: 1, H0575: 1, H0253: 1, H0318: 1, H0544: 1, H0009: 1, H0688: 1, H0634: 1, H0087: 1, H0551: 1, L0351: 1, S0438: 1, H0641: 1, H0649: 1, S0002: 1, H0695: 1, L0763: 1, L3904: 1, L0773: 1, L0767: 1, L0649: 1, L0803: 1, L0650: 1, L0375: 1, L0776: 1, L0657: 1, L0783:								
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548	HCEVS49	858355	558	47 - 3001	1963	Met-1 to Ser-6, Leu-10 to Ser-17, Met-20 to Ser-25.	1, L4501: 1, L0663: 1, L0565: 1, H0519: 1, S0126: 1, H0689: 1, H0683: 1, H0684: 1, H0659: 1, H0670: 1, S0330: 1, S0380: 1, H0696: 1, H0134: 1, H0555: 1, L0609: 1, S0027: 1, S0028: 1, L0741: 1, L0743: 1, L0439: 1, L0777: 1, L0780: 1, S0434: 1, S0436: 1, H0216: 1, H0542: 1, H0423: 1 and H0506: 1. AR053: 4, AR089: 3, AR052: 3, AR096: 2, AR060: 1, AR033: 1, AR104: 1, AR061: 1, AR039: 0, AR055: 0 H0052: 8, L0439: 7, H0556: 6, H0618: 6, H0265: 5, L0758: 5, H0253: 4, L0764: 4, H0617: 3, S0152: 3, H0341: 2, S0420: 2, L0717: 2, H0559: 2, H0251: 2, H0620: 2, H0428: 2, H0135: 2, T0041: 2, L0809: 2, L0368: 2, L0665: 2, H0520: 2, H0547: 2, H0658: 2, L0744: 2, L0754: 2, L0591: 2, L0593: 2, L0601: 2, T0002: 1, H0686: 1,					673-697, 319-335, 635-651, 804-820, 438-454, 876-892
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549	HKGBP90	858433	559	229 - 834	1964	Leu-21 to Tyr-28.	S0040: 1, S0418: 1, S0358: 1, S0376: 1, H0261: 1, H0549: 1, H0550: 1, T0039: 1, H0318: 1, S0474: 1, H0194: 1, T0110: 1, H0046: 1, H0012: 1, S0051: 1, H0266: 1, H0181: 1, L0456: 1, H0040: 1, H0087: 1, H0100: 1, T0042: 1, H0494: 1, S0438: 1, S0002: 1, H0529: 1, L0772: 1, L0800: 1, L0662: 1, L0363: 1, L0794: 1, L0649: 1, L0803: 1, L0774: 1, L0375: 1, L0378: 1, L0658: 1, L0783: 1, L0790: 1, L0791: 1, L0792: 1, L0666: 1, S0148: 1, L0438: 1, L0352: 1, H0519: 1, H0670: 1, H0672: 1, H0521: 1, H0696: 1, S0044: 1, H0555: 1, H0436: 1, L0745: 1, L0747: 1, L0779: 1, L0731: 1, S0031: 1, H0445: 1, H0595: 1, L0608: 1, L0361: 1, H0665: 1, H0667: 1, H0542: 1, S0424: 1, H0008: 1 and H0352: 1.				59-77, 87- 103, 142-
							AR096: 1, AR053: 1, AR089: 1, AR033: 1,				

									AR061: 1, AR060: 0, AR052: 0, AR055: 0, AR104: 0 H0266: 2, L0748: 2, L0777: 2, H0486: 1, H0373: 1, H0494: 1, S0014: 1, H0538: 1, L0803: 1, S0044: 1, L0740: 1, L0779: 1, L0759: 1, H0445: 1 and H0665: 1.				158, 186- 202
550	HOELK66	858436	560	105 - 1442	1965			His-87 to Glu-93, Pro-217 to Leu-222, Glu-224 to Lys-230, Val-264 to Trp-275, Phe-311 to Asn-316, Asp-344 to Gly-349, Gly-363 to Gln-379, Gly-398 to Gly-404, Gly-437 to Ser-446.	AR096: 20, AR089: 16, AR052: 13, AR053: 10, AR039: 9, AR104: 9, AR060: 8, AR055: 8, AR033: 6, AR061: 4 S0476: 2, H0713: 1, H0580: 1, S0045: 1, S0132: 1, H0599: 1, L0143: 1, H0551: 1, H0488: 1, S0126: 1, L0777: 1, L0731: 1, L0485: 1 and S0242: 1.				59-75, 232-248, 177-193
551	HHFMX34	858449	561	69 - 686	1966			Ile-49 to Gln-55, Phe-57 to Ala-63.	AR096: 17, AR039: 14, AR089: 12, AR060: 11, AR055: 11, AR053: 10, AR033: 10, AR104: 9, AR052: 9, AR061: 5 H0556: 1, S0420: 1, S0358: 1, H0619: 1, H0373: 1, H0702: 1, S0027: 1,				106-123, 23-39



552	HOUED48	858450	562	412 - 966	1967	Glu-46 to Arg-53.	<p>H0423: 1 and H0422: 1.  AR055: 6, AR052: 4,  AR033: 4, AR053: 4,  AR060: 3, AR061: 3,  AR096: 2, AR089: 2,  AR039: 2, AR104: 1  L0766: 13, L0439: 6,  H0012: 3, H0266: 3, L0770:  3, L0761: 3, L0655: 3,  H0650: 2, H0031: 2, L0653:  2, L0776: 2, L0751: 2,  L0747: 2, H0171: 1, S0040:  1, S6024: 1, H0656: 1,  S0282: 1, S0045: 1, S0132:  1, S0222: 1, L0021: 1,  H0051: 1, H0271: 1, H0688:  1, H0383: 1, H0412: 1,  L0769: 1, L0642: 1, L0775:  1, L0375: 1, L0659: 1,  L0664: 1, L0665: 1, H0672:  1, H0521: 1, H0436: 1,  S0027: 1, S0028: 1, S0206:  1, L0743: 1, L0750: 1,  L0757: 1, L0758: 1, L0097:  1, H0423: 1, S0456: 1 and  H0506: 1.</p>	11			107-129, 62-78, 81- 97
553	HHBB126	858451	563	213 - 749	1968	Pro-8 to Leu-14.	<p>AR033: 2, AR060: 2,  AR053: 2, AR096: 2,  AR039: 2, AR104: 1,</p>				47-63

								AR089: 1, AR055: 1, AR061: 1, AR052: 0 H0583: 1, H0650: 1, H0250: 1, H0599: 1, H0373: 1, H0266: 1, S0038: 1, S0044: 1, S0028: 1 and H0653: 1.				
554	HHAUZ72	858492	564	216 - 626	1969	Thr-33 to Pro-39.		AR052: 2, AR053: 2, AR055: 2, AR096: 2, AR061: 1, AR089: 1, AR060: 1, AR033: 1, AR039: 1, AR104: 1 H0635: 2, S0418: 1, H0388: 1, H0436: 1 and S0031: 1.				79-98, 39- 56, 15-31
555	HWMAM4 1	858536	565	231 - 638	1970			AR096: 28, AR053: 10, AR039: 5, AR089: 5, AR052: 5, AR061: 3, AR055: 3, AR060: 2, AR033: 2, AR104: 2 S0007: 5, L0742: 5, L0731: 5, S0444: 4, L0769: 4, L0766: 4, L0740: 4, L0747: 4, L0749: 4, L0756: 4, L0596: 4, H0031: 3, L0065: 3, L0775: 3, L0809: 3, S0126: 3, L0759: 3, S0354: 2, H0438: 2, H0083: 2, L0371: 2, L0770: 2,				10-43, 111-132, 78-96, 39- 55

556	HCEOV70	858578	566	359 - 694	1971	Ser-9 to Arg-15.	L0772: 2, L0803: 2, L0776: 2, L0783: 2, H0555: 2, L0439: 2, L0755: 2, L0758: 2, L0591: 2, S0011: 2, H0556: 1, H0685: 1, H0656: 1, H0341: 1, S0418: 1, S0360: 1, H0331: 1, H0632: 1, H0013: 1, H0349: 1, H0546: 1, H0566: 1, S0022: 1, H0135: 1, H0040: 1, H0616: 1, S0386: 1, H0494: 1, S0438: 1, H0130: 1, H0646: 1, L0637: 1, L0761: 1, L0372: 1, L0800: 1, L0767: 1, L0794: 1, L0517: 1, L0647: 1, L0666: 1, L0663: 1, H0144: 1, T0068: 1, H0520: 1, H0690: 1, S0330: 1, H0521: 1, S3012: 1, L0777: 1, S0436: 1, H0543: 1 and H0352: 1.				77-93
557	HKGDL95	858584	567	278 - 1690	1972		AR055: 15, AR060: 13, AR033: 12, AR089: 9, AR104: 8, AR052: 8, AR061: 7, AR096: 7, AR039: 7, AR053: 6				49-66

558	HSKGN12	858602	568	378 - 776	1973	Asp-28 to Trp-33, Gly-59 to Ser-71.	AR089: 3, AR033: 2, AR104: 2, AR061: 1, AR055: 1, AR039: 0 S0010: 3, L0731: 3, H0542: 2, S0134: 1, L0002: 1, S0418: 1, H0369: 1, H0486: 1, H0013: 1, S0280: 1, H0581: 1, S0049: 1, H0057: 1, S0022: 1, H0538: 1, H0529: 1, L0761: 1, L0667: 1, L0803: 1, L0653: 1, L0647: 1, L0793: 1, H0144: 1, L0355: 1, S0434: 1 and H0422: 1.					3-29, 33- 60, 76-98, 104-121
							AR055: 8, AR053: 6, AR104: 6, AR060: 6, AR033: 6, AR096: 5, AR052: 5, AR089: 4, AR061: 4, AR039: 3 L0748: 11, L0752: 5, S0003: 4, H0638: 3, L0747: 3, L0755: 3, L0759: 3, H0171: 2, T0114: 2, H0674: 2, S0422: 2, L0764: 2, L0766: 2, L0775: 2, L0740: 2, L0754: 2, L0749: 2, L0758: 2, H0170: 1, T0002: 1, H0295: 1, H0341: 1, S0212: 1, S0442: 1, S0444: 1, H0574: 1, H0156: 1,					

559	HCEGR84	858644	569	173 - 691	1974	Asn-30 to Cys-37.	<p>H0575: 1, H0596: 1, H0530: 1, L0157: 1, H0123: 1, H0620: 1, S0388: 1, H0428: 1, H0031: 1, H0264: 1, S0014: 1, S0450: 1, H0529: 1, L0763: 1, L0770: 1, L0803: 1, L0804: 1, L0776: 1, L0655: 1, L0809: 1, S0052: 1, S0374: 1, H0520: 1, H0547: 1, S0122: 1, H0670: 1, H0648: 1, H0521: 1, S3014: 1, L0777: 1, L0780: 1, L0731: 1, H0445: 1, L0589: 1 and S0194: 1.</p> <p>AR104: 18, AR052: 17, AR033: 16, AR053: 9, AR096: 8, AR089: 6, AR060: 5, AR039: 4, AR061: 4, AR055: 3, S0414: 17, L0758: 14, L0752: 13, L0740: 12, S0222: 11, L0439: 11, H0441: 8, H0052: 8, L0770: 8, L0777: 8, L0741: 7, S0010: 6, H0327: 6, S0036: 6, L0779: 6, H0620: 5, H0051: 5, L0803: 5, S0051: 4, H0644: 4, L0805: 4, L0809: 4, L0742: 4, L0744: 4, H0599: 3, H0059: 3,</p>					55-86, 90-115, 123-147, 10-30, 45-61
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	L0768: 3, L0804: 3, L0774: 3, H0144: 3, S0330: 3, L0751: 3, L0754: 3, L0750: 3, S0412: 3, S0300: 2, H0438: 2, H0012: 2, S0050: 2, S0388: 2, T0010: 2, H0615: 2, H0553: 2, L0769: 2, L0794: 2, L0776: 2, L0789: 2, L0666: 2, L0663: 2, L0438: 2, L0743: 2, L0753: 2, L0755: 2, L0759: 2, S0031: 2, S0260: 2, L0608: 2, H0717: 1, H0716: 1, S6024: 1, S0282: 1, L0005: 1, S0007: 1, S0220: 1, H0586: 1, H0333: 1, H0013: 1, S0049: 1, H0050: 1, H0023: 1, H0399: 1, H0688: 1, H0040: 1, T0067: 1, S0386: 1, H0100: 1, S0039: 1, S0112: 1, L0351: 1, S0294: 1, S0440: 1, L0763: 1, L0800: 1, L0764: 1, L0662: 1, L0775: 1, L0651: 1, L0661: 1, L0807: 1, L0657: 1, L0793: 1, L0664: 1, H0520: 1, H0547: 1, H0593: 1, H0689: 1, H0670: 1, H0648: 1, H0696: 1 I 0609: 1 I 0747: 1				
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560	HMIBL51	858727	570	817 - 1185	1975				L0756: 1, L0731: 1, S0434: 1 and S0021: 1. AR055: 17, AR033: 9, AR061: 9, AR060: 8, AR052: 8, AR089: 6, AR104: 5, AR096: 5, AR053: 5, AR039: 4 L0439: 3, H0455: 1, H0427: 1, H0575: 1, S0010: 1, H0390: 1, S0346: 1, L0163: 1, S6028: 1, H0428: 1, S0150: 1 and L0743: 1.				103-122, 6-22
561	HFXJP30	858754	571	32 - 946	1976	Trp-8 to Arg-14, Asp-74 to Gln-79, Ala-96 to Thr-104.			AR052: 12, AR053: 7, AR096: 6, AR089: 4, AR039: 4, AR104: 3, AR055: 3, AR060: 3, AR061: 3, AR033: 2 H0419: 3, S0282: 2, S0028: 2, H0717: 1, H0381: 1, L0105: 1, H0135: 1, S0052: 1 and S0044: 1.				188-227, 269-293, 182-202, 50-72, 118-137, 153-170, 241-258, 14-30
562	HCHMP94	858877	572	85 - 603	1977	Asn-159 to Thr-173.			AR039: 5, AR033: 4, AR060: 4, AR096: 3, AR052: 3, AR089: 2, AR055: 2, AR104: 2, AR061: 2, AR053: 1 L0777: 4, L0751: 3, L0747: 3, H0661: 2, L0648: 2, L0561: 2, L0779: 2,				99-126, 19-37, 70- 86

563	HOHBO69	858909	573	76 - 378	1978	Met-1 to Ser-8, Gln-37 to Asn-42, Lys-47 to Glu-54, Glu-61 to Gly-69.	<p>LO753: 2, S0342: 1, H0484: 1, S0358: 1, L0009: 1, H0411: 1, S0222: 1, S6014: 1, H0546: 1, H0123: 1, H0188: 1, S0366: 1, H0413: 1, H0494: 1, S0344: 1, H0529: 1, L0769: 1, L0627: 1, L0774: 1, L0378: 1, L0776: 1, L0655: 1, L0663: 1, S0148: 1, S0380: 1, H0478: 1, L0743: 1, L0439: 1, L0750: 1 and S0196: 1.</p> <p>AR096: 2, AR089: 1, AR104: 1, AR060: 1, AR061: 1, AR033: 1, AR055: 1, AR039: 0, AR052: 0, AR053: 0, S0126: 21, S0212: 14, S0250: 8, S0022: 8, S0028: 7, H0266: 6, S0040: 5, L0565: 4, S0420: 3, S0390: 3, L0740: 3, S0418: 2, H0550: 2, H0615: 2, H0622: 2, H0623: 2, S0208: 2, L0751: 2, L0777: 2, S0134: 1, S0180: 1, S0298: 1, S0360: 1, H0619: 1, H0486: 1, H0575: 1, H0544: 1, H0545: 1, H0050: 1, H0024: 1, H0551: 1, H0100: 1,</p>	3q11.1- q13.2	600882	77-96	
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564	HBJHY72	858921	574	634 - 137	1979	Asn-7 to Arg-15, His-143 to Phe-148.	S0015: 1, H0538: 1, L0598: 1, L0772: 1, L0800: 1, L0662: 1, L0649: 1, L0775: 1, H0519: 1, H0593: 1, S3014: 1, S0032: 1, L0757: 1, S0434: 1, H0653: 1, H0665: 1, H0667: 1, S0276: 1 and S0196: 1. AR052: 12, AR055: 8, AR053: 8, AR033: 6, AR089: 6, AR061: 6, AR060: 5, AR096: 1, AR104: 1, AR039: 0 L0794: 5, L0766: 3, L0759: 3, S0212: 2, H0318: 2, L0803: 2, L0804: 2, L0378: 2, L0665: 2, L0438: 2, L0439: 2, L0749: 2, L0591: 2, L0599: 2, L0362: 2, H0686: 1, S0342: 1, S0134: 1, H0656: 1, H0669: 1, S0358: 1, H0370: 1, H0069: 1, S0346: 1, H0251: 1, H0050: 1, H0373: 1, H0266: 1, S0022: 1, L0483: 1, H0553: 1, H0163: 1, H0090: 1, H0116: 1, H0509: 1, S0426: 1, H0529: 1, L0769: 1, L0638: 1, L0646: 1, L0648: 1, L0768: 1,					89-106, 126-142, 56-72
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565	HWEAD78	858922	575	1026 - 2279	1980				L0381: 1, L0375: 1, L0653: 1, L0659: 1, L0782: 1, L0809: 1, L0793: 1, H0691: 1, H0435: 1, H0659: 1, H0648: 1, S0152: 1, S0390: 1, S0027: 1, S0028: 1, L0777: 1, L0731: 1, S0260: 1, L0596: 1, S0192: 1 and S0424: 1.				243-259, 71-87, 318-334
						Pro-54 to Tyr-61, Asp-132 to Leu-139, Ser-176 to Asp-183.			AR055: 183, AR096: 110, AR033: 22, AR061: 22, AR089: 21, AR060: 20, AR104: 18, AR039: 4, AR052: 4, AR053: 3 H0341: 2, S0045: 2, H0551: 2, H0556: 1, S0376: 1, H0619: 1, H0437: 1, H0601: 1, H0333: 1, H0485: 1, H0013: 1, H0635: 1, H0590: 1, H0318: 1, H0009: 1, H0266: 1, H0267: 1, S0003: 1, H0615: 1, H0644: 1, H0383: 1, H0068: 1, H0316: 1, H0116: 1, H0264: 1, H0561: 1, L0768: 1, L0794: 1, H0144: 1, H0436: 1, S0028: 1, L0744: 1, H0445: 1, H0542: 1 and S0424: 1.				

566	HFIBK06	858956	576	110 - 1213	1981	Arg-3 to Phe-10, Val-18 to Cys-23, His-64 to Tyr-73, Ser-181 to Gly-186, Glu-211 to Pro-221, Gly-284 to Ser-289, Thr-296 to Tyr-301, Phe-308 to Gly-318, Pro-321 to Asp-326.	AR039: 1, AR055: 1, AR089: 1, AR096: 0, AR061: 0, AR060: 0, AR053: 0, AR052: 0, AR104: 0, AR033: 0 S0192: 19, H0551: 9, S0002: 9, H0521: 9, L0740: 9, L0731: 8, S0152: 6, H0090: 5, H0547: 5, L0777: 5, S0360: 4, S0214: 4, S0144: 4, L0776: 4, L0747: 4, L0759: 4, L0596: 4, S0212: 3, S0278: 3, L0770: 3, L0766: 3, H0144: 3, S0126: 3, S0342: 2, S0418: 2, S0420: 2, S0046: 2, S0222: 2, H0497: 2, H0575: 2, H0327: 2, H0266: 2, S0250: 2, S0003: 2, H0031: 2, H0644: 2, H0040: 2, H0264: 2, H0623: 2, S0344: 2, L0598: 2, L0769: 2, L0662: 2, L0804: 2, L0775: 2, L0663: 2, L0565: 2, S0330: 2, S0028: 2, S0206: 2, L0439: 2, L0754: 2, L0750: 2, L0756: 2, L0752: 2, L0599: 2, S0276: 2, H0556: 1, S0040: 1, S0001: 1, S0282: 1, S0358: 1,			44-62, 144-160
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S0376: 1, H0580: 1, H0619: 1, H0411: 1, H0409: 1, H0586: 1, H0587: 1, H0574: 1, L0622: 1, H0486: 1, T0039: 1, T0040: 1, T0109: 1, L0021: 1, T0082: 1, H0421: 1, H0194: 1, H0231: 1, H0544: 1, H0046: 1, H0024: 1, H0014: 1, H0051: 1, T0010: 1, S6028: 1, H0553: 1, H0628: 1, L0055: 1, H0383: 1, H0212: 1, H0124: 1, H0598: 1, H0038: 1, H0634: 1, H0268: 1, H0412: 1, H0056: 1, H0494: 1, H0625: 1, H0641: 1, H0633: 1, S0142: 1, S0210: 1, S0426: 1, H0529: 1, L0369: 1, L0372: 1, L0646: 1, L0374: 1, L0764: 1, L0768: 1, L0794: 1, L0803: 1, L0805: 1, L0652: 1, L0783: 1, L0664: 1, S0052: 1, H0519: 1, H0670: 1, H0672: 1, H0539: 1, L0602: 1, S0350: 1, S3012: 1, S0037: 1, S0032: 1, L0744: 1, L0751: 1, L0779: 1, L0753: 1, L0757: 1, S0434: 1, I0581: 1, I0593: 1
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567	HE9RF77	858957	577	150 - 974	1982	Arg-9 to Lys-26, Pro-79 to Asp-87, Arg-200 to Trp-219.	S0026: 1, H0136: 1, H0216: 1, H0542: 1, H0423: 1 and S0412: 1. AR055: 5, AR061: 5, AR096: 3, AR060: 3, AR033: 3, AR052: 3, AR053: 3, AR039: 2, AR089: 2, AR104: 1 L0777: 7, L0769: 6, L0771: 5, L0794: 5, L0805: 4, H0734: 3, H0031: 3, L0803: 3, L0740: 3, H0265: 2, S0360: 2, H0635: 2, H0318: 2, H0457: 2, S0364: 2, H0090: 2, L0662: 2, H0144: 2, L0748: 2, L0439: 2, L0755: 2, H0556: 1, H0713: 1, S0624: 1, H0341: 1, S0418: 1, S0356: 1, S0354: 1, S0376: 1, S0408: 1, S0410: 1, S0278: 1, H0370: 1, H0250: 1, L0021: 1, H0599: 1, H0575: 1, H0036: 1, H0052: 1, H0567: 1, L0471: 1, H0024: 1, H0083: 1, H0687: 1, S0003: 1, H0615: 1, H0030: 1, L0055: 1, H0591: 1, S0294: 1, H0647: 1, L0598: 1, L0667: 1, L0772: 1, L0646:				180-198, 136-152, 235-251
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568	HCEEU61	859028	578	341 - 3	1983			1, L0800: 1, L0768: 1, L0766: 1, L0386: 1, L0775: 1, L4501: 1, L0665: 1, H0519: 1, H0648: 1, H0521: 1, S0406: 1, H0576: 1, L0749: 1, L0779: 1, L0780: 1, L0752: 1, L0731: 1, L0757: 1, L0758: 1, L0591: 1, H0423: 1 and H0422: 1.			
								AR033: 8, AR104: 8, AR055: 4, AR061: 3, AR089: 2, AR039: 2, AR060: 2, AR052: 2, AR053: 1, AR096: 1, L0758: 4, L0769: 3, L0803: 3, H0295: 2, S0007: 2, L0438: 2, L0740: 2, L0757: 2, S0418: 1, S0420: 1, L0021: 1, H0706: 1, H0052: 1, S0250: 1, H0328: 1, H0213: 1, S0366: 1, L0662: 1, L0774: 1, L0659: 1, L0790: 1, L0664: 1, S0027: 1, L0741: 1, L0743: 1, L0756: 1, L0777: 1 and L0731: 1.			80-98
569	HOHBV41	859036	579	351 - 689	1984	Val-2 to Arg-12, His-21 to Ile-43.		AR096: 1, AR033: 1, AR061: 1, AR055: 0, AR060: 0, AR089: 0,	4p15.2		71-95

570	HHFKC41	859165	580	118 - 1341	1985	Met-1 to Gly-6, Arg-8 to Ala-19, Ser-32 to Ala-46, Ala-57 to Pro-76, Ala-78 to Arg-88, Thr-95 to Ser-104, Lys-126 to Glu-138.	AR039: 0, AR052: 0, AR053: 0 H0251: 1 and S0250: 1. AR096: 2, AR089: 2, AR033: 1, AR104: 1, AR060: 1, AR053: 1, AR052: 1, AR055: 1, AR061: 0, AR039: 0 L0745: 8, S0422: 5, H0615: 3, L0759: 3, H0543: 3, L0783: 2, L0666: 2, S0126: 2, L0604: 2, S0242: 2, H0170: 1, H0661: 1, S0418: 1, S0360: 1, H0619: 1, H0550: 1, H0123: 1, H0266: 1, S0312: 1, S0003: 1, H0551: 1, H0413: 1, T0042: 1, H0494: 1, S0440: 1, H0529: 1, L0771: 1, L0773: 1, L0803: 1, L0657: 1, H0690: 1, H0659: 1, L0754: 1, L0731: 1, L0757: 1, H0216: 1, S0276: 1 and S0196: 1.				352-378, 232-252, 307-324, 271-287
571	HMWGG4 4	859189	581	108 - 1124	1986	Gln-40 to Glu-45, Glu-96 to Glu-102, Asn-256 to Thr-266, Lys-311 to Ser-322.	AR089: 75, AR052: 35, AR060: 31, AR033: 29, AR053: 28, AR104: 20, AR061: 19, AR096: 16, AR055: 16, AR039: 14				1-28, 184- 201, 157- 173

L0803: 13, L0748: 12, L0752: 8, L0744: 7, H0124: 6, L0770: 6, H0733: 5, H0169: 5, H0674: 5, L0455: 5, L0766: 5, L0804: 5, L0805: 5, L0776: 5, L0740: 5, L0745: 5, L0750: 5, L0777: 5, L0809: 4, S0442: 3, H0032: 3, L0774: 3, L0742: 3, L0757: 3, L0759: 3, S0436: 3, S0114: 2, S0360: 2, S0222: 2, L0622: 2, H0545: 2, H0673: 2, L0598: 2, L0794: 2, L0775: 2, L0375: 2, L0651: 2, L0659: 2, L0526: 2, L0783: 2, L0528: 2, H0547: 2, S0126: 2, S0330: 2, S0380: 2, H0696: 2, S0188: 2, L0751: 2, L0747: 2, L0755: 2, L0605: 2, H0624: 1, H0265: 1, S0040: 1, S0218: 1, H0650: 1, H0341: 1, H0638: 1, H0580: 1, H0728: 1, H0734: 1, S0476: 1, S6014: 1, H0610: 1, H0486: 1, L0586: 1, T0060: 1, H0575: 1, T0082: 1, H0004: 1, H0581: 1, H0057: 1, H0014: 1, H0083: 1, H0188:
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572	HOEMM2 3	859190	582	131 - 496	1987	Tyr-10 to Asp-15, Asp-64 to Gly-72, Gln-74 to Lys-85, Gly-110 to Arg-122.	1, H0687: 1, S0003: 1, H0328: 1, T0023: 1, L0055: 1, H0165: 1, S0364: 1, S0366: 1, S0036: 1, L0564: 1, H0494: 1, L0475: 1, S0016: 1, H0560: 1, S0294: 1, S0438: 1, S0440: 1, H0509: 1, H0131: 1, S0150: 1, H0641: 1, S0422: 1, S0002: 1, L0520: 1, L0371: 1, L0796: 1, L0637: 1, L0761: 1, L0646: 1, L0800: 1, L0771: 1, L0648: 1, L0521: 1, L0363: 1, L0376: 1, L0378: 1, L0653: 1, L0384: 1, L0530: 1, L0787: 1, L0788: 1, S0053: 1, S0148: 1, H0689: 1, H0659: 1, S0378: 1, S0152: 1, H0522: 1, H0704: 1, S0044: 1, H0478: 1, H0727: 1, S3014: 1, L0756: 1, L0731: 1, L0758: 1, S0031: 1, S0434: 1 and S0276: 1.				15-41, 41- 63, 86-109
						AR096: 2, AR104: 2, AR055: 1, AR089: 1, AR060: 1, AR033: 0, AR061: 0, AR052: 0 S0126: 4, H0271: 1, H0164: 1, S0028: 1 and					

573	HTXPN78	859200	583	31 - 873	1988	Thr-116 to Gly-122, Lys-142 to Pro-150, Pro-164 to Ala-172, Glu-184 to Asn-189.	S0260: 1. AR052: 4, AR055: 3, AR053: 3, AR060: 2, AR033: 2, AR089: 2, AR061: 2, AR096: 1, AR104: 1, AR039: 0 S0126: 3, H0658: 3, H0556: 2, H0576: 2, L0600: 2, H0265: 1, S0360: 1, H0592: 1, H0051: 1, H0031: 1, H0135: 1, H0652: 1, L0641: 1, L0803: 1, L0375: 1, L0666: 1, H0547: 1, S0031: 1 and S0026: 1.				48-65, 121-137, 73-89
574	HFPGR87	859201	584	775 - 1125	1989	Glu-9 to Gly-14, Gln-75 to Val-81, Ser-94 to Gly-116.	AR033: 13, AR052: 6, AR104: 5, AR060: 4, AR055: 4, AR061: 4, AR053: 3, AR089: 3, AR096: 2, AR039: 1 L0748: 7, L0747: 6, L0805: 5, L0803: 4, L0776: 4, L0439: 4, L0757: 4, H0549: 3, L0794: 3, L0809: 3, L0750: 3, L0777: 3, H0624: 2, H0635: 2, H0012: 2, L0775: 2, L0744: 2, L0731: 2, S0276: 2, H0556: 1, S0114: 1, H0650: 1, H0255: 1, S0360: 1, L0394:	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040	51-73	

575	HE8PR67	859233	585	98 - 1402	1990	Pro-12 to Lys-33, Asn-41 to His-46, Pro-48 to Ser-58, Gly-71 to Asp-78, Ala-94 to Gly-102, Ser-133 to Ser-140, Arg-197 to Lys-202.	1, S0222: 1, H0441: 1, H0392: 1, H0333: 1, S0474: 1, H0052: 1, H0194: 1, H0235: 1, H0597: 1, H0231: 1, H0546: 1, H0150: 1, H0620: 1, H0328: 1, H0615: 1, H0674: 1, H0068: 1, H0135: 1, H0163: 1, L0497: 1, L0804: 1, L0661: 1, L0543: 1, L0791: 1, L5286: 1, H0144: 1, S0126: 1, H0696: 1, L0743: 1, L0749: 1, L0780: 1, L0752: 1, L0758: 1, S0031: 1, L0591: 1 and L0608: 1.				252-280, 319-342, 202-222, 157-173, 385-401, 174-190
						AR052: 8, AR055: 8, AR053: 6, AR096: 6, AR089: 5, AR060: 4, AR033: 4, AR039: 4, AR061: 3, AR104: 3 L0758: 4, S0358: 3, L0766: 3, H0038: 2, L0748: 2, L0754: 2, L0756: 2, L0759: 2, H0265: 1, H0223: 1, H0222: 1, H0159: 1, L0002: 1, S0116: 1, H0586: 1, T0040: 1, H0013: 1, H0052: 1, T0110: 1, L0157: 1, H0050: 1, H0266: 1, S0250: 1, S0364: 1, H0616:					

576	HDTDZ65	859250	586	35 - 2344	1991	Leu-55 to Phe-61, Arg-105 to Cys-111, Leu-152 to Glu-158, Glu-174 to Leu-187, Tyr-213 to Pro-223, Ala-246 to Asp-256, Leu-274 to Cys-283, Glu-297 to Tyr-302, Pro-322 to Leu-327, Asp-333 to Val-343, Thr-375 to Pro-382, Asp-403 to Ser-415, Thr-490 to Lys-496, Pro-531 to Asp-541, Arg-545 to Gly-551, Asp-582 to Ile-588, Asn-683 to Thr-713.	1, H0264: 1, H0509: 1, H0641: 1, L0646: 1, L0773: 1, L0662: 1, L0776: 1, L0655: 1, L0659: 1, L0809: 1, L0666: 1, L0664: 1, S0126: 1, S0380: 1, H0521: 1, L0779: 1, L0593: 1, S0242: 1 and L0697: 1.				727-762, 5-21, 556- 572
						AR089: 5, AR052: 2, AR060: 2, AR096: 2, AR055: 2, AR033: 1, AR039: 1, AR061: 1, AR104: 0, AR053: 0 S0192: 18, H0521: 7, L0659: 6, S0126: 6, L0744: 6, H0486: 5, L0666: 5, S0022: 4, L0438: 4, L0754: 4, S0194: 4, S0045: 3, L0662: 3, S0330: 3, L0758: 3, S0040: 2, H0661: 2, H0662: 2, S0132: 2, S0476: 2, H0392: 2, H0013: 2, H0575: 2, H0581: 2, S0250: 2, H0622: 2, H0553: 2, H0628: 2, H0591: 2, H0551: 2, H0623: 2, H0494: 2, S0002: 2, S0426: 2, L0771: 2, L0803: 2, L0527: 2, L0664: 2, L0665: 2, H0144: 2, S0027: 2, S0028: 2,					

	S0206: 2, L0740: 2, L0751: 2, H0595: 2, L0596: 2, H0506: 2, H0170: 1, T0049: 1, S0212: 1, H0638: 1, S0420: 1, S0442: 1, S0376: 1, S0468: 1, S0046: 1, S0278: 1, H0369: 1, H0592: 1, H0586: 1, S0010: 1, H0705: 1, H0310: 1, H0046: 1, T0010: 1, H0375: 1, H0266: 1, H0687: 1, S0214: 1, H0039: 1, L0483: 1, H0030: 1, H0031: 1, H0032: 1, S0366: 1, H0598: 1, H0038: 1, H0380: 1, H0268: 1, H0413: 1, H0056: 1, S0440: 1, H0652: 1, S0142: 1, S0344: 1, L0770: 1, L0638: 1, L0646: 1, L0649: 1, L0381: 1, L0806: 1, L0657: 1, L0658: 1, L0518: 1, L0809: 1, L0789: 1, H0682: 1, S0332: 1, H0696: 1, S0404: 1, S0406: 1, H0555: 1, H0627: 1, S0037: 1, S3014: 1, L0747: 1, L0755: 1, L0757: 1, L0588: 1, L0591: 1, S0026: 1, H0653: 1, H0665: 1 and S0196: 1.					
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577	HWAEV63	859588	587	93 - 440	1992	Met-7 to Asp-22.	AR033: 5, AR096: 3, AR060: 3, AR052: 3, AR089: 3, AR053: 2, AR104: 1, AR061: 1, AR055: 1, AR039: 0 L0439: 6, L0659: 4, L0740: 4, L0752: 4, S0376: 3, L0731: 3, H0052: 2, L0471: 2, S0051: 2, H0428: 2, H0090: 2, L0803: 2, L0809: 2, H0423: 2, S0452: 2, H0624: 1, H0170: 1, H0663: 1, S0442: 1, S0045: 1, S0222: 1, H0331: 1, S0280: 1, L0021: 1, H0575: 1, H0004: 1, H0581: 1, H0457: 1, H0014: 1, S0388: 1, T0010: 1, H0083: 1, S0628: 1, S0318: 1, S0003: 1, H0688: 1, H0031: 1, H0553: 1, H0628: 1, L0055: 1, H0591: 1, H0038: 1, H0040: 1, H0268: 1, L0564: 1, S0210: 1, S0422: 1, L0598: 1, L0768: 1, L0794: 1, L0766: 1, L0774: 1, L0775: 1, L0518: 1, L0666: 1, L0664: 1, H0547: 1, H0659: 1, H0539: 1, S0380: 1, H0478: 1, H0479: 1,				46-74, 77- 98
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578	HOHAV17	859636	588	13 - 318	1993					L0779: 1, L0777: 1, L0755: 1, L0592: 1, L0599: 1, S0194: 1, S0276: 1, H0543: 1, S0424: 1 and H0506: 1. AR052: 1, AR104: 1, AR089: 1, AR061: 1, AR055: 1, AR039: 0, AR033: 0, AR096: 0, AR060: 0, AR053: 0 S0250: 1 and H0547: 1.				62-94	
579	HNTAW95	859688	589	198 - 875	1994	Cys-179 to Ser-189, Ala-216 to Tyr-223.				AR053: 2, AR096: 1, AR055: 1, AR033: 1, AR061: 1, AR089: 0, AR060: 0, AR104: 0, AR052: 0 H0046: 20, H0529: 3, L0439: 3, H0624: 2, H0038: 2, H0547: 2, L0588: 2, H0556: 1, H0484: 1, H0450: 1, H0619: 1, H0549: 1, H0550: 1, H0497: 1, T0040: 1, H0013: 1, H0599: 1, H0052: 1, H0050: 1, H0012: 1, H0551: 1, H0264: 1, H0494: 1, H0509: 1, H0538: 1, L0654: 1, H0520: 1, H0519: 1, S0126: 1, S0152: 1, S0332: 1, S0013: 1, S0027: 1, L0740: 1, H0445:				143-176, 66-93, 22-50, 106-125	

580	HMCFL79	859704	590	1309 - 824	1995			1, L0592: 1, L0593: 1, L0595: 1 and H0506: 1. AR055: 11, AR053: 10, AR052: 8, AR096: 7, AR060: 7, AR089: 6, AR033: 6, AR061: 5, AR039: 5, AR104: 3 H0521: 7, L0748: 4, H0656: 3, H0586: 2, H0264: 2, L0740: 2, S0436: 2, H0542: 2, H0171: 1, T0002: 1, H0222: 1, S0040: 1, H0294: 1, S0134: 1, H0583: 1, S0212: 1, S0356: 1, S0045: 1, H0069: 1, H0318: 1, H0421: 1, H0052: 1, H0081: 1, H0050: 1, H0284: 1, H0428: 1, S0036: 1, H0551: 1, H0494: 1, S0144: 1, S0344: 1, L0807: 1, L0790: 1, H0547: 1, H0435: 1, H0539: 1, S0152: 1, S0028: 1, S0032: 1, L0750: 1, L0777: 1, L0759: 1, H0445: 1 and H0422: 1. AR096: 5, AR089: 4, AR033: 4, AR060: 3, AR052: 1, AR061: 1, AR104: 0, AR053: 0			33-70, 78- 99, 7-24, 57-73, 117-133
581	HNTCT36	859756	591	103 - 630	1996	Met-1 to Lys-17, Asn-66 to Asn-95, Thr-100 to Tyr-106.				153-169	



582	HTPDM61	859769	592	45 - 485	1997	Pro-30 to Arg-35, Glu-41 to Glu-51, Ser-54 to Trp-62, Gly-69 to Trp-77.	H0519: 2, H0156: 1, L0666: 1, L0665: 1, H0520: 1, L0758: 1 and L0759: 1. AR033: 10, AR055: 10, AR052: 8, AR089: 7, AR060: 7, AR053: 7, AR061: 6, AR096: 5, AR104: 3, AR039: 1 L0766: 3, L0731: 3, S0051: 2, L0769: 2, L0662: 2, L0768: 2, L0747: 2, H0140: 1, H0656: 1, S0418: 1, S0444: 1, H0013: 1, L0021: 1, H0046: 1, H0439: 1, H0615: 1, H0039: 1, H0551: 1, S0438: 1, S0144: 1, L0763: 1, L0372: 1, L0794: 1, L0805: 1, L0783: 1, L0809: 1, L0647: 1, L0788: 1, L0792: 1, L0663: 1, L0664: 1, H0691: 1, H0593: 1, L0750: 1 and L0758: 1.				74-97, 3- 19
583	HTFOH87	859792	593	389 - 745	1998	Pro-10 to Arg-15.	AR039: 1, AR096: 1, AR033: 1, AR061: 1, AR060: 0, AR089: 0, AR052: 0, AR055: 0, AR104: 0 L0769: 5 S0045: 2	22q13.2- q13.31	188826, 250100, 250800, 250800	55-81, 36- 52, 84-100	

584	HWBDQ32	859796	594	284 - 760	1999	Leu-10 to Ser-20, Ala-49 to Gly-55, Ala-69 to Ala-74.	L0773: 2, L0775: 2, L0783: 2, L0809: 2, H0657: 1, H0341: 1, H0254: 1, H0255: 1, S0360: 1, H0208: 1, H0550: 1, H0052: 1, H0123: 1, H0673: 1, H0412: 1, H0413: 1, L0640: 1, L0763: 1, L0768: 1, L0794: 1, L0661: 1, L0665: 1, H0691: 1, H0690: 1, S0378: 1, H0521: 1, L0750: 1, L0777: 1, L0759: 1, S0436: 1, L0366: 1, S0242: 1 and S0424: 1.						99-116
							AR096: 3, AR052: 3, AR053: 2, AR089: 2, AR033: 1, AR061: 1, AR060: 1, AR055: 1, AR104: 1, AR039: 0 L0745: 7, H0486: 4, L0764: 3, L0774: 3, L0779: 3, H0543: 3, H0130: 2, L0768: 2, L0766: 2, L0803: 2, L0542: 2, H0666: 2, H0672: 2, L0746: 2, L0755: 2, L0758: 2, L0596: 2, T0049: 1, H0657: 1, H0662: 1, S0358: 1, S0360: 1, H0580: 1, S0046: 1, S0222: 1, H0586: 1, H0013: 1,						

585	HCHMO53	859797	595	199 - 660	2000	Arg-7 to Ala-14, Phe-113 to Arg-118, Pro-124 to His-129, Glu-145 to Ala-153.	L0021: 1, H0251: 1, H0266: 1, S0003: 1, S0214: 1, H0428: 1, H0535: 1, H0644: 1, H0674: 1, H0598: 1, H0038: 1, H0616: 1, H0268: 1, H0509: 1, S0002: 1, L0371: 1, L0770: 1, L0637: 1, L0372: 1, L0662: 1, L0550: 1, L0775: 1, L0375: 1, L0523: 1, L0526: 1, L0809: 1, L0663: 1, S0126: 1, H0435: 1, H0670: 1, H0539: 1, S0380: 1, H0522: 1, S0044: 1, H0345: 1, L0439: 1, L0740: 1, L0754: 1, L0750: 1, L0759: 1, H0445: 1 and L0603: 1. AR060: 16, AR052: 8, AR053: 7, AR033: 6, AR104: 6, AR089: 6, AR039: 5, AR061: 5, AR096: 4, AR055: 2 L0776: 8, L0731: 8, S0438: 6, L0752: 6, H0677: 6, S0410: 5, S0440: 5, L0764: 5, L0749: 5, T0049: 4, S0132: 4, L0766: 4, H0648: 4, L0759: 4, H0355: 3, L0519: 3, H0684: 3, L0748: 3, L0747: 3, L0757:					86-102, 54-70
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586	HNHMC08	859848	596	10 - 1251	2001				1, H0478: 1, H0479: 1, L0753: 1, S0434: 1, S0394: 1, L0592: 1, L0608: 1, H0668: 1, S0026: 1 and H0422: 1.				383-406, 124-149, 8-35, 281- 302, 349- 368, 151- 171, 85- 104, 44- 62, 227- 245, 324- 340, 29- 45, 189- 205
587	HDPFH27	859875	597	95 - 1933	2002	Ser-27 to Pro-35, Thr-87 to Ile-99, Pro-106 to Lys-112, Glu-119 to Ser-130, Ser-182 to Val-187, Lys-194 to Tyr-204, Lys-295 to Val-300, Lys-384 to Glu-390, Thr-512 to Thr-526, Ser-530 to Glu-537, Gln-556 to Lys-562, Lys-593 to Leu-601.	AR060: 20, AR039: 19, AR055: 13, AR033: 13, AR053: 10, AR052: 9, AR089: 8, AR096: 7, AR104: 7, AR061: 4 H0521: 2	Xq25-q26	300037, 300076, 300123, 301201, 301845, 301900, 304340, 307150, 307700, 308000, 308000, 308230,	65-84, 302-318, 571-587, 130-146, 366-382, 492-508			

588	HE9QX59	859884	598	97 - 978	2003	Ser-49 to Ser-66, Asp-152 to Lys-160, Gly-186 to Asn-192, Arg-200 to Ser-205, Pro-223 to His-229, Gly-240 to Thr-250.	AR061: 14, AR052: 5, AR055: 3, AR033: 2, AR089: 2, AR060: 1, AR053: 1, AR096: 0, AR039: 0, AR104: 0 H0144: 1 and L0755: 1.	I7q22-q24	308240, 309555, 310490, 312000, 313350, 313850	269-286, 163-179, 103-119
									109270, 109270, 109270, 109270, 109270, 115660, 120150, 120150, 120150, 139250, 148065, 148080, 148500, 150200, 154275, 162100, 170500, 170500, 170500, 171190, 176960, 182452, 185800, 221820,	

589	HNFBU66	859891	599	953 - 537	2004	Thr-26 to Lys-32, Asn-98 to Pro-105, Arg-133 to Thr-139.	AR089: 15, AR096: 15, AR052: 14, AR053: 12, AR060: 12, AR055: 11, AR104: 11, AR039: 10, AR033: 9, AR061: 6 H0171: 2, H0624: 1, S0222: 1, H0271: 1, S0390: 1, S0028: 1, L0786: 1 and S0031: 1.	230200, 249000, 253250, 600525, 600852, 601844	71-88
590	HLDQW16	859895	600	906 - 1214	2005	Thr-33 to Thr-40, Lys-86 to Lys-103.	AR039: 9, AR096: 8, AR053: 8, AR089: 7, AR052: 6, AR033: 5, AR055: 4, AR104: 4, AR060: 4, AR061: 2 L0766: 6, L0770: 3, H0632: 2, H0013: 2, L0483: 2, L0775: 2, L0663: 2, H0521: 2, L0759: 2, L0362: 2, S0354: 1, S0358: 1, H0486: 1, H0003: 1, H0318: 1, H0544: 1, H0457: 1, H0510: 1, H0428: 1, L0371: 1, L0521: 1, L0512: 1	51-68, 4- 21	

591	HTLGS48	859918	601	726 - 1436	2006	Met-1 to Trp-10, Gln-12 to Thr-37.	L0783: 1, L0664: 1, H0593: 1, H0365: 1, H0659: 1, H0658: 1, H0672: 1, S0378: 1, L0756: 1, L0758: 1, H0445: 1, L0480: 1 and L0599: 1. AR055: 8, AR033: 6, AR060: 5, AR089: 5, AR104: 4, AR039: 4, AR052: 4, AR053: 4, AR061: 4, AR096: 4 H0618: 7, L0747: 6, L0439: 5, H0617: 3, L0766: 3, L0438: 3, H0580: 2, H0328: 2, L0783: 2, H0694: 2, S0434: 2, H0717: 1, S0442: 1, S0360: 1, S0408: 1, H0208: 1, S0045: 1, H0261: 1, H0550: 1, H0586: 1, H0333: 1, H0559: 1, H0486: 1, H0253: 1, T0048: 1, H0546: 1, T0003: 1, H0024: 1, H0373: 1, H0399: 1, H0292: 1, H0135: 1, L5565: 1, L0761: 1, L0630: 1, L0767: 1, L0375: 1, L0653: 1, L0655: 1, L0807: 1, L0787: 1, H0547: 1, H0672: 1, H0576: 1, L0748: 1, L0786: 1, L0758: 1,					43-64, 199-218, 119-135
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								L0759: 1, S0011: 1 and H0423: 1.				
592	HNHDI54	859973	602	235 - 546	2007			AR055: 9, AR060: 6, AR033: 5, AR061: 5, AR052: 4, AR039: 3, AR089: 3, AR096: 3, AR053: 3, AR104: 0 S0053: 2				70-96
593	HAPPS75	860023	603	1221 - 190	2008	Arg-55 to Gly-61.		AR039: 38, AR033: 23, AR096: 21, AR104: 20, AR052: 18, AR089: 17, AR053: 15, AR061: 14, AR055: 14, AR060: 13 H0581: 3, H0522: 3, L0747: 3, H0662: 2, H0553: 2, H0641: 2, S0053: 2, H0689: 2, H0521: 2, L0748: 2, L0731: 2, L0759: 2, H0543: 2, H0294: 1, H0657: 1, H0656: 1, S0418: 1, S0358: 1, H0208: 1, H0619: 1, H0586: 1, H0587: 1, H0427: 1, H0599: 1, H0575: 1, H0052: 1, H0545: 1, H0009: 1, H0081: 1, H0510: 1, H0266: 1, H0212: 1, H0211: 1, H0090: 1, H0100: 1, T0042: 1, H0494: 1, H0646: 1, L0770: 1, L0659:				255-271, 107-123

594	HWLEL47	860167	604	222 - 566	2009	Met-1 to Arg-6, Pro-24 to Ile-30.	1, H0519: 1, S0037: 1, L0741: 1, L0750: 1, L0777: 1, H0445: 1, L0596: 1 and H0542: 1. AR096: 1, AR060: 1, AR055: 1, AR089: 1, AR104: 1, AR061: 1, AR033: 1, AR039: 0, AR052: 0, AR053: 0 S0354: 1 and S0428: 1. AR055: 6, AR060: 4, AR052: 3, AR089: 3, AR033: 3, AR061: 3, AR053: 2, AR104: 2, AR039: 2, AR096: 1 S0052: 1				88-105, 35-51	
595	HNGJG75	860381	605	183 - 662	2010	Ser-13 to His-18, Phe-90 to Asp-100, Ser-118 to Thr-143.	AR052: 9, AR061: 8, AR053: 7, AR060: 6, AR039: 5, AR033: 5, AR096: 5, AR055: 5, AR089: 4, AR104: 4 H0038: 3, H0265: 2, H0341: 2, H0543: 2, H0556: 1, S0116: 1, S0212: 1, H0664: 1, S0376: 1, H0393: 1, H0370: 1, H0592: 1, H0013: 1, L2250: 1, H0544: 1, H0046: 1, H0012: 1, H0083: 1, S0214: 1, H0031:	17p13.1	191170, 191170		36-56	
596	HKAJU40	860461	606	89 - 676	2011	Gln-96 to Glu-102, Asn-108 to Val-113, Gly-154 to Tyr-159.	AR052: 9, AR061: 8, AR053: 7, AR060: 6, AR039: 5, AR033: 5, AR096: 5, AR055: 5, AR089: 4, AR104: 4 H0038: 3, H0265: 2, H0341: 2, H0543: 2, H0556: 1, S0116: 1, S0212: 1, H0664: 1, S0376: 1, H0393: 1, H0370: 1, H0592: 1, H0013: 1, L2250: 1, H0544: 1, H0046: 1, H0012: 1, H0083: 1, S0214: 1, H0031:	17p13.1	191170, 191170		174-190, 7-23, 70- 86	

597	HYABL83	860565	607	1473 - 1012	2012	Val-43 to Gly-48, Leu-118 to Leu-128.	1, S0364: 1, H0494: 1, S0440: 1, H0509: 1, H0633: 1, S0144: 1, H0529: 1, L0372: 1, L0766: 1, S0126: 1, L0602: 1, S0152: 1, H0522: 1, H0576: 1, L0779: 1, H0665: 1 and H0216: 1. AR089: 3, AR033: 2, AR096: 2, AR039: 2, AR060: 2, AR061: 1, AR055: 0, AR053: 0, AR052: 0, AR104: 0 L0754: 5, L0744: 4, L0659: 3, L0439: 3, L0747: 3, L0777: 3, S6024: 2, H0661: 2, H0645: 2, L0794: 2, L0766: 2, L0803: 2, H0144: 2, L0748: 2, L0759: 2, L0605: 2, H0556: 1, H0583: 1, S0212: 1, H0663: 1, S0354: 1, H0619: 1, S0222: 1, H0441: 1, H0586: 1, H0333: 1, L0021: 1, H0575: 1, H0590: 1, H0318: 1, H0050: 1, L0163: 1, H0510: 1, H0266: 1, H0622: 1, H0030: 1, H0644: 1, H0032: 1, H0135: 1, H0551: 1, T0041: 1, H0509: 1, S0150: 1, H0647: 1, H0646:					57-86, 20- 43, 127- 145
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598	HKADP82	860617	608	234 - 536	2013	Glu-6 to Glu-16.	1, S0344: 1, S0426: 1, L0598: 1, H0529: 1, L0762: 1, L0796: 1, L0372: 1, L0804: 1, L0774: 1, L0805: 1, L0656: 1, L0809: 1, L0666: 1, L0438: 1, H0547: 1, H0519: 1, H0683: 1, H0435: 1, H0659: 1, H0660: 1, H0696: 1, S0028: 1, L0742: 1, L0745: 1, L0746: 1, L0752: 1, L0757: 1, L0480: 1, L0591: 1, H0653: 1, S0192: 1, H0423: 1 and H0422: 1. AR060: 2, AR053: 1, AR061: 1, AR033: 0, AR055: 0, AR096: 0, AR039: 0 H0144: 3, S0007: 2, H0550: 2, H0494: 2, L0794: 2, L0633: 2, L0666: 2, L0665: 2, S0330: 2, H0478: 2, S0040: 1, H0661: 1, H0637: 1, H0549: 1, H0431: 1, S0280: 1, H0575: 1, H0051: 1, H0355: 1, H0594: 1, H0288: 1, L0483: 1, H0644: 1, H0038: 1, H0616: 1, H0509: 1, H0517: 1, L0662: 1, L0791: 1, L0663:						72-89
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									1, L0664: 1, H0703: 1, L0438: 1, H0547: 1, H0711: 1, H0518: 1, S0044: 1, H0214: 1, L0439: 1, L0751: 1, L0731: 1 and H0423: 1.				
599	HNGEK43	860646	609	29 - 430	2014	Pro-16 to Cys-28, Val-79 to Gly-84.			AR061: 2, AR055: 2, AR089: 1, AR096: 1, AR033: 1, AR053: 1, AR060: 1, AR039: 0, AR104: 0 S0052: 2 and H0393: 1.			91-107	
600	HTAJS93	860849	610	36 - 1160	2015	Tyr-42 to Gly-48, Ser-62 to Arg-83, Asp-137 to Pro-148, Ser-201 to Arg-207.			AR096: 31, AR089: 24, AR033: 14, AR060: 14, AR052: 13, AR053: 13, AR039: 13, AR055: 10, AR061: 6, AR104: 5 L0731: 27, L0662: 10, S0360: 8, L0666: 8, L0659: 7, L0758: 7, S0358: 6, S0003: 6, L0803: 6, L0748: 6, L0747: 6, L0779: 6, L0752: 6, S0132: 5, L0664: 5, L0744: 5, L0754: 5, S0040: 4, H0662: 4, H0411: 4, H0251: 4, H0597: 4, L0471: 4, H0024: 4, S0022: 4, L0809: 4, L0663: 4, L0439: 4, L0749: 4, L0756: 4, L0362: 4, L0002: 3,			344-371, 169-200, 313-340, 275-302, 15-42, 146-167, 119-135, 1-17, 210- 227, 237- 253	

				H0600: 3, H0599: 3, S0250: 3, H0039: 3, H0622: 3, H0616: 3, L0805: 3, S0126: 3, H0521: 3, L0759: 3, H0170: 2, S0212: 2, H0255: 2, S0418: 2, L0717: 2, S0222: 2, H0592: 2, H0486: 2, H0590: 2, H0196: 2, H0231: 2, H0373: 2, L0483: 2, L0564: 2, S0002: 2, L0772: 2, L0641: 2, L0764: 2, L0806: 2, L0776: 2, L0384: 2, H0144: 2, S0044: 2, H0555: 2, H0595: 2, L0592: 2, L0599: 2, L0603: 2, S0194: 2, H0624: 1, S0001: 1, H0663: 1, H0664: 1, H0638: 1, S0376: 1, H0637: 1, H0580: 1, H0393: 1, H0437: 1, H0453: 1, H0370: 1, H0586: 1, H0331: 1, H0574: 1, H0559: 1, H0485: 1, H0013: 1, H0635: 1, H0427: 1, H0118: 1, H0575: 1, H0036: 1, H0253: 1, L0105: 1, H0318: 1, H0234: 1, H0546: 1, H0050: 1, H0105: 1, S0388: 1, H0271: 1, S0318: 1, H0252: 1, H0428: 1, H0553: 1.			
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601	HE9PJ48	861223	611	131 - 1549	2016	Thr-9 to Asn-16, Thr-59 to Trp-70, Pro-92 to His-97, Thr-345 to Gly-351, Tyr-409 to Pro-426, Arg-433 to Val-466.	H0644: 1, H0673: 1, S0364: 1, S0366: 1, H0591: 1, H0634: 1, H0412: 1, H0413: 1, H0100: 1, S0112: 1, T0041: 1, H0494: 1, H0641: 1, H0646: 1, S0208: 1, L0763: 1, L0372: 1, L0771: 1, L0648: 1, L0768: 1, L0364: 1, L0794: 1, L0774: 1, L0379: 1, L0512: 1, L0647: 1, L0788: 1, L0665: 1, S0374: 1, L0438: 1, H0684: 1, H0672: 1, S0330: 1, S0380: 1, S0152: 1, H0579: 1, H0522: 1, S0013: 1, S0146: 1, H0631: 1, S0432: 1, S0037: 1, L0745: 1, L0750: 1, L0777: 1, L0757: 1, H0444: 1, L0596: 1, L0597: 1, L0591: 1, S0011: 1, S0026: 1, S0192: 1, H0422: 1 and H0008: 1.				66-93, 98- 125, 374- 405, 351- 371, 41- 58, 217- 235, 166- 182, 286- 302, 318-
						AR033: 4, AR061: 4, AR060: 2, AR104: 2, AR089: 2, AR053: 1, AR055: 1, AR039: 0, AR052: 0 H0556: 6, L0438: 6, L0758: 6, L0766: 5, L0666: 5, L0747: 5, L0805: 4,					

[illegible]



602	HPRBC95	861227	612	524 - 853	2017	Gly-88 to Ser-94, Glu-98 to Tyr-110.	<p>S0440: 1, S0150: 1, H0633: 1, S0210: 1, H0529: 1, L0520: 1, L0763: 1, L0770: 1, L0761: 1, L0772: 1, L0646: 1, L0641: 1, L0764: 1, L0521: 1, L0662: 1, L0775: 1, L0806: 1, L0657: 1, L0783: 1, L0792: 1, L0663: 1, L0665: 1, L0352: 1, H0689: 1, H0684: 1, H0648: 1, H0521: 1, H0522: 1, H0704: 1, S0406: 1, H0187: 1, H0576: 1, S0037: 1, S0028: 1, L0740: 1, L0751: 1, L0752: 1, L0757: 1, L0590: 1, L0485: 1, L0595: 1, H0665: 1, H0136: 1, H0216: 1 and S0424: 1.</p> <p>AR055: 11, AR033: 9, AR089: 7, AR060: 6, AR104: 6, AR052: 5, AR096: 5, AR053: 5, AR061: 5, AR039: 4, L0439: 4, L0754: 3, L0758: 3, L0809: 2, L0666: 2, L0438: 2, L0757: 2, S0358: 1, S0376: 1, S0360: 1, H0730: 1, H0351: 1, H0411: 1, S0222: 1, T0039: 1, H0581: 1, H0545: 1,</p>						62-80, 20-39
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603	HDPUM54	861242	613	14 - 466	2018	Thr-89 to Gly-97, Ser-100 to Thr-108.	H0050: 1, S0318: 1, S0334: 1, H0032: 1, L0351: 1, L0763: 1, L0770: 1, L0774: 1, L0775: 1, L0659: 1, L0789: 1, H0365: 1, L0779: 1, L0777: 1, L0755: 1, H0444: 1, S0436: 1 and S0196: 1. AR096: 3, AR039: 3, AR053: 1, AR052: 1, AR033: 1, AR061: 1, AR089: 1, AR060: 0, AR055: 0 L0754: 12, L0748: 11, H0521: 9, L0770: 5, L0740: 5, L0747: 5, L0756: 5, L0766: 4, H0591: 3, S0002: 3, L0744: 3, H0457: 2, H0428: 2, H0090: 2, L0523: 2, L0654: 2, L0659: 2, L0438: 2, H0435: 2, L0439: 2, H0445: 2, L0599: 2, S0026: 2, H0542: 2, H0556: 1, H0450: 1, S0420: 1, H0586: 1, H0013: 1, S0280: 1, H0421: 1, H0596: 1, H0046: 1, H0123: 1, H0083: 1, H0266: 1, H0553: 1, H0628: 1, L0055: 1, H0316: 1, S0426: 1, L0761: 1,	16q12-q13	114835, 132700, 172490, 600968	50-75, 31- 52	
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604	HHFLL92	861294	614	717 - 1103	2019	Ala-24 to Arg-29, Arg-82 to Gln-89.	L0771: 1, L0768: 1, L0803: 1, L0774: 1, L0776: 1, L0655: 1, L0790: 1, L0792: 1, L0666: 1, H0144: 1, H0670: 1, H0518: 1, H0579: 1, L0749: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, L0596: 1, S0192: 1, S0194: 1 and S0276: 1. AR089: 8, AR055: 7, AR060: 6, AR052: 6, AR033: 6, AR061: 5, AR096: 5, AR053: 4, AR039: 3, AR104: 3 L0779: 9, L0483: 6, L0748: 6, H0556: 5, H0264: 5, L0766: 5, L0740: 5, L0750: 5, L0769: 4, L0659: 4, L0663: 4, L0754: 4, L0758: 4, L0593: 4, S0114: 3, H0656: 3, L0717: 3, H0622: 3, H0673: 3, H0436: 3, L0747: 3, L0777: 3, L0731: 3, H0445: 3, L0596: 3, L0718: 3, H0402: 2, S0442: 2, H0619: 2, H0393: 2, S0280: 2, H0081: 2, H0050: 2, H0024: 2, H0271: 2, H0135: 2, L0637: 2, L0768: 2, L0794: 2, L0561:					95-112, 38-54
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605	HMCHK65	861307	615	51 - 563	2020		1, L0761: 1, L0764: 1, L0662: 1, L0375: 1, L0806: 1, L0776: 1, L0518: 1, L0809: 1, L0788: 1, L0790: 1, L0666: 1, L0665: 1, S0052: 1, S0374: 1, L0438: 1, H0519: 1, H0593: 1, H0689: 1, H0659: 1, H0660: 1, H0651: 1, S0328: 1, H0539: 1, H0518: 1, S0152: 1, S0044: 1, H0576: 1, S0432: 1, H0345: 1, S3012: 1, S0390: 1, S3014: 1, S0027: 1, L0744: 1, L0780: 1, L0759: 1, L0589: 1, L0599: 1, H0667: 1, S0276: 1, H0543: 1, H0423: 1, S0458: 1, UNKWN: 1 and H0352: 1.				118-139, 151-167, 93-110, 63-79, 35- 51
							AR053: 1, AR060: 1, AR104: 1, AR089: 1, AR055: 1, AR033: 0, AR061: 0, AR096: 0, AR039: 0, AR052: 0 L0766: 6, L0748: 6, L0740: 6, L0776: 4, H0521: 3, S0358: 2, H0266: 2, S0003: 2, S0344: 2, L0638: 2, L0805: 2, L0438: 2, S0380: 2, L0754: 2, L0747:				

606	HAIDK89	861328	616	1422 - 2093	2021	Ser-43 to Ala-48, Ser-72 to Leu-78, Ala-100 to Ala-107, Ser-109 to Ile-115, Arg-166 to Asn-171.	2, L0752: 2, L0755: 2, L0362: 2, H0624: 1, L0005: 1, H0580: 1, S0045: 1, S0046: 1, H0575: 1, S0010: 1, H0553: 1, H0269: 1, T0042: 1, S0150: 1, L0369: 1, L0770: 1, L0761: 1, L0794: 1, L0656: 1, L0787: 1, L0789: 1, L0665: 1, H0670: 1, H0660: 1, S0152: 1, L0439: 1, L0749: 1, L0779: 1, L0777: 1, L0759: 1, H0445: 1, H0343: 1, L0591: 1, S0192: 1 and H0543: 1.				186-223, 171-188
						AR033: 4, AR060: 3, AR096: 3, AR089: 2, AR039: 1, AR053: 1, AR104: 1, AR061: 1, AR055: 1, AR052: 0 L0438: 7, L0740: 4, H0416: 3, L0803: 3, L0777: 3, S0005: 2, H0544: 2, H0271: 2, H0090: 2, H0038: 2, H0551: 2, S0440: 2, L0766: 2, L0809: 2, H0436: 2, L0748: 2, L0439: 2, L0754: 2, L0758: 2, L0366: 2, H0265: 1, H0556: 1, H0583: 1, H0656: 1, H0341:					

607	HTOHL88	861361	617	1389 - 478	2022	Ser-25 to Gly-48, Phe-83 to Asp-91, Pro-110 to His-123, Lys-134 to Thr-139.	1, S0360: 1, S0408: 1, S0132: 1, S0476: 1, H0550: 1, S0222: 1, H0632: 1, H0492: 1, H0013: 1, L0021: 1, H0599: 1, S0049: 1, H0123: 1, H0375: 1, H0266: 1, H0622: 1, H0553: 1, H0383: 1, H0135: 1, H0040: 1, H0616: 1, H0087: 1, S0426: 1, L0769: 1, L0641: 1, L0644: 1, L0771: 1, L0773: 1, L0662: 1, L0768: 1, L0655: 1, L0665: 1, H0682: 1, H0696: 1, H0478: 1, L0749: 1, L0780: 1, L0759: 1 and H0422: 1.	7q33	180105, 222800	257-287, 173-200, 220-241, 88-108, 52-70, 202-218, 1-17, 138- 154	
608	HMEKU54	861611	618	215 - 586	2023		AR055: 9, AR033: 6, AR060: 5, AR061: 5, AR052: 4, AR089: 3, AR096: 3, AR053: 2, AR104: 1, AR039: 0 L0603: 4, H0031: 3, S0010: 2, T0010: 2, L0438: 2, H0038: 1, H0616: 1, H0264: 1, S0426: 1, H0539: 1 and L0439: 1.			56-83, 86- 104	

				AR033: 3, AR053: 3, AR039: 1, AR104: 0 L0769: 7, L0754: 7, H0657: 4, L0764: 4, L0751: 4, S0408: 3, S0222: 3, H0327: 3, H0046: 3, H0056: 3, L0756: 3, L0752: 3, S0282: 2, S0356: 2, S0444: 2, H0580: 2, H0250: 2, H0622: 2, H0625: 2, L0803: 2, L0666: 2, H0648: 2, H0672: 2, S0380: 2, S0146: 2, L0745: 2, L0747: 2, L0777: 2, L0731: 2, L0600: 2, H0556: 1, H0740: 1, H0305: 1, H0125: 1, S0410: 1, H0637: 1, S0476: 1, H0393: 1, H0586: 1, H0643: 1, H0486: 1, H0013: 1, H0635: 1, H0599: 1, H0575: 1, S0346: 1, H0318: 1, S0474: 1, H0052: 1, H0024: 1, H0266: 1, H0271: 1, H0188: 1, H0286: 1, H0615: 1, H0124: 1, H0135: 1, H0634: 1, H0264: 1, T0042: 1, H0132: 1, H0641: 1, H0652: 1, S0422: 1, L0639: 1, L0771: 1, L0773: 1, L0662: 1, L0766: 1, L0774:								
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609	HOQBR51	861620	619	613 - 1017	2024	Gly-35 to Arg-41, Lys-51 to Phe-62, Pro-89 to Gln-94.	1, L0776: 1, L0655: 1, L0659: 1, L0809: 1, L0367: 1, H0547: 1, H0670: 1, H0521: 1, H0696: 1, S0404: 1, S0406: 1, L0748: 1, L0740: 1, L0749: 1, L0779: 1, L0755: 1, L0759: 1, S0434: 1, S0026: 1, H0653: 1, H0667: 1, S0242: 1, S0412: 1, H0506: 1 and : 1.					105-131
610	HAMGP34	861668	620	32 - 1135	2025	Tyr-132 to Tyr-140, Cys-143 to Ser-154, Gly-252 to Thr-259, Glu-296 to Ala-302,	AR039: 51, AR104: 25, AR033: 23, AR096: 17, AR055: 17, AR053: 14, AR089: 14, AR052: 13, AR060: 12, AR061: 8 L0592: 3, H0592: 2, L0769: 2, L0657: 2, L0742: 2, L0749: 2, L0731: 2, L0758: 2, L0759: 2, S0010: 1, H0150: 1, H0009: 1, H0290: 1, H0644: 1, S0038: 1, H0494: 1, H0633: 1, L0771: 1, L0775: 1, L0776: 1, L0636: 1, L0809: 1, L0777: 1 and L0366: 1.					22-57, 59- 89, 204- 231, 1-20, 326-342

611	HHEL22	861683	621	184 - 918	2026	Arg-8 to Val-14, Tyr-25 to Arg-32, Cys-38 to Trp-44, His-70 to Ser-75, Glu-100 to Glu-106, Gly-117 to His-127, Gln-130 to Ser-136, Ser-167 to Ala-172,	Gln-311 to His-326, Pro-361 to Leu-368.	AR052: 0, AR053: 0 S0474: 22, H0556: 3, H0012: 3, H0521: 3, L0777: 3, H0638: 2, S0344: 2, L0769: 2, L0766: 2, L0803: 2, L0774: 2, L0375: 2, L0809: 2, L0748: 2, L0745: 2, L0747: 2, L0756: 2, L0779: 2, L0731: 2, H0484: 1, S0420: 1, H0722: 1, H0550: 1, H0592: 1, H0318: 1, H0081: 1, H0620: 1, H0673: 1, H0674: 1, H0560: 1, L0770: 1, L0638: 1, L0764: 1, L0804: 1, L0775: 1, L0655: 1, L0493: 1, L0659: 1, L0783: 1, L4501: 1, L0664: 1, L0438: 1, H0547: 1, S0328: 1, H0518: 1, L0746: 1, L0749: 1, H0445: 1, S0436: 1 and H0542: 1.				78-94, 46-62
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Pro-184 to Ile-197, Glu-201 to Ser-209, Thr-215 to Val-222, Arg-228 to Glu-245.	L0766: 4, L0774: 4, S0010: 3, S0036: 3, L0764: 3, L0771: 3, L0803: 3, L0657: 3, L0748: 3, L0759: 3, H0542: 3, H0657: 2, S0360: 2, H0009: 2, H0562: 2, H0050: 2, L0363: 2, L0768: 2, L0550: 2, L0776: 2, L0655: 2, L0659: 2, H0648: 2, L0740: 2, L0754: 2, L0756: 2, L0758: 2, L0588: 2, H0136: 2, H0265: 1, H0686: 1, S0116: 1, H0341: 1, H0638: 1, S0418: 1, S0356: 1, S0358: 1, S0046: 1, S0222: 1, H0497: 1, H0333: 1, H0486: 1, H0013: 1, H0427: 1, H0156: 1, H0599: 1, H0581: 1, H0309: 1, H0327: 1, S0312: 1, S0214: 1, L0055: 1, H0038: 1, H0634: 1, H0433: 1, L0370: 1, S0438: 1, H0646: 1, S0002: 1, L0598: 1, H0529: 1, L0451: 1, L0769: 1, L0639: 1, L0637: 1, L5575: 1, L0630: 1, L0800: 1, L0662: 1, L0381: 1, L0775: 1, L0651: 1, L0653: 1, L0661: 1, L0809: 1
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612	HDPTD75	861707	622	219 - 773	2027			L0532: 1, L0664: 1, L0665: 1, H0701: 1, S0122: 1, H0365: 1, H0539: 1, S0152: 1, H0555: 1, L0745: 1, L0777: 1, L0755: 1, L0757: 1, H0445: 1, S0436: 1, L0592: 1, L0608: 1, L0595: 1, L0362: 1, L0361: 1, S0026: 1, S0242: 1, H0422: 1 and S0424: 1.				6-38, 147- 176, 111- 137, 79-95
								AR052: 6, AR053: 5, AR096: 4, AR060: 3, AR033: 3, AR089: 3, AR039: 3, AR055: 3, AR061: 2, AR104: 2 L0731: 7, L0748: 5, L0599: 5, L0775: 4, H0521: 4, L0740: 4, L0766: 3, L0774: 3, L0747: 3, S0026: 3, H0069: 2, S0010: 2, S0474: 2, S0438: 2, L0771: 2, L0768: 2, L0649: 2, L0806: 2, L0653: 2, L0517: 2, L0663: 2, H0701: 2, H0522: 2, L0779: 2, L0755: 2, H0265: 1, H0713: 1, H0295: 1, S0212: 1, S0420: 1, S0444: 1, S0408: 1, H0393: 1, H0549: 1, H0613: 1, H0592: 1, H0331: 1,				

613	HTLIC39	861985	623	191 - 637	2028	Ser-128 to Gln-133, Ser-144 to Thr-149.	H0250: 1, L0021: 1, H0706: 1, H0318: 1, H0263: 1, H0123: 1, L0471: 1, H0024: 1, H0510: 1, H0615: 1, H0031: 1, H0553: 1, H0169: 1, H0674: 1, S0366: 1, S0036: 1, S0016: 1, H0560: 1, H0714: 1, H0509: 1, H0652: 1, S0142: 1, L0762: 1, L0770: 1, L0769: 1, L0764: 1, L0767: 1, L0803: 1, L0651: 1, L0776: 1, L0655: 1, L0606: 1, L0661: 1, L0658: 1, L0512: 1, L0783: 1, L0384: 1, L0809: 1, S0052: 1, H0593: 1, H0689: 1, H0672: 1, S0378: 1, L0439: 1, L0749: 1, L0750: 1, L0757: 1, L0758: 1, L0759: 1, S0031: 1, H0595: 1, S0434: 1, H0423: 1, H0422: 1 and H0506: 1.	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700,	4-31, 76- 93, 97-114
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614	HNECT74	862042	624	18 - 653	2029	Ser-105 to Pro-110, His-180 to His-196.	S0420: 1, S0360: 1, H0618: 1, H0424: 1, L0055: 1, H0087: 1, S0002: 1, L0769: 1, L0768: 1, L0766: 1, L0634: 1, H0436: 1, L0747: 1, L0777: 1 and H0542: 1.			I61015, I64009, I68461, I68461, I68461, I80721, I80840, I91181, I93235, I209901, I232600, I259700, I259770, I600045, I600319, I600528, I601884	123-152, 63-83, 36- 55, 143- 159
							AR096: 22, AR089: 22, AR053: 16, AR039: 13, AR060: 12, AR033: 11, AR052: 9, AR055: 7, AR061: 6, AR104: 4 L0751: 15, L0752: 12, L0758: 9, L0766: 8, L0769: 7, L0750: 7, L0776: 6, L0753: 4, L0759: 4, H0585: 3, H0549: 3, H0620: 3, H0628: 3, H0617: 3, L0742: 3, L0754: 3, L0747: 3, L0731: 3, S0436: 3, H0624:				

				2, H0265: 2, H0556: 2, H0657: 2, S0360: 2, H0580: 2, S0140: 2, H0050: 2, H0622: 2, H0063: 2, H0551: 2, L0763: 2, L0761: 2, L0774: 2, L0540: 2, S0126: 2, H0689: 2, L0743: 2, L0748: 2, L0780: 2, L0601: 2, S0192: 2, H0422: 2, H0159: 1, H0717: 1, S0114: 1, H0650: 1, H0656: 1, S0116: 1, S0001: 1, H0662: 1, S0418: 1, S0007: 1, H0550: 1, H0441: 1, H0559: 1, L0623: 1, T0039: 1, H0427: 1, H0599: 1, H0575: 1, H0706: 1, S0474: 1, H0581: 1, H0597: 1, H0546: 1, H0545: 1, H0051: 1, T0010: 1, S6028: 1, H0179: 1, H0271: 1, H0687: 1, H0286: 1, S0022: 1, H0615: 1, T0041: 1, H0647: 1, H0649: 1, H0652: 1, S0002: 1, L0796: 1, L0772: 1, L0373: 1, L0764: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0775: 1, L0378: 1, L0806: 1, L0807: 1, L0512: 1, L0783: 1, L0787:								
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									1, L0666: 1, H0520: 1, H0659: 1, H0670: 1, S0378: 1, H0710: 1, S0152: 1, H0521: 1, S0406: 1, H0555: 1, H0436: 1, H0345: 1, S3012: 1, S0037: 1, S3014: 1, S0027: 1, S0032: 1, L0749: 1, L0779: 1, L0592: 1, L0097: 1, H0543: 1, S0424: 1 and H0677: 1.				
615	HCRNU23	862179	625	227 - 586	2030	Pro-60 to Gly-66.			AR033: 12, AR089: 10, AR052: 6, AR055: 6, AR061: 5, AR096: 5, AR053: 5, AR060: 5, AR039: 0, AR104: 0 S0356: 1, H0431: 1, H0013: 1, H0599: 1, L0770: 1 and L0777: 1.			99-120, 32-48	
616	HCMASK41	862374	626	13 - 372	2031	Pro-111 to Ser-120.			AR096: 4, AR055: 3, AR053: 3, AR033: 2, AR060: 2, AR061: 2, AR052: 2, AR104: 1, AR089: 1, AR039: 0 H0196: 1			62-82	
617	HEEAF67	862392	627	55 - 639	2032	Val-15 to Lys-21, Met-62 to Pro-67.			AR033: 12, AR053: 10, AR052: 10, AR096: 10, AR055: 9, AR089: 9, AR104: 9, AR060: 8, AR061: 6, AR039: 3			79-105, 112-137, 21-39, 161-177	



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618	HWAFQ22	862394	628	497 - 907	2033	Met-1 to Ala-9, Ala-49 to Ser-54, Asp-98 to Trp-103.	AR096: 3, AR089: 1, AR033: 1, AR039: 1, AR060: 1, AR052: 0, AR055: 0, AR053: 0, AR061: 0, AR104: 0 L0439: 12, L0751: 7, L0745: 6, L0766: 4, L0438: 4, H0580: 3, L0717: 3, H0592: 3, S0372: 3, L0770: 3, L0665: 3, L0750: 3, H0422: 3, H0657: 2, S0442: 2, S0444: 2, H0581: 2, H0553: 2, H0494: 2, S0422: 2, L0637: 2, L0662: 2, L0649: 2, L0659: 2, L0793: 2, L0666: 2, L0664: 2, H0726: 2, H0521: 2, L0758: 2, H0445: 2, S0436: 2, L0603: 2, T0002: 1, H0341: 1, H0484: 1, S0420: 1, S0376: 1, H0730: 1, S0045: 1, S0476: 1, H0261: 1, H0586: 1, H0497: 1, H0013: 1, S0474: 1, H0566: 1, H0012: 1, H0594: 1, H0030: 1, L0055: 1, H0616: 1, H0488: 1, H0366: 1, S0426: 1, L0769: 1, L0638: 1, L5566: 1, L0646: 1, L0800: 1, L0764: 1, L0771: 1,				60-79
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619	HCECR08	862433	629	567 - 1076	2034		L0767: 1, L0768: 1, L0804: 1, L0774: 1, L0776: 1, L0655: 1, L0809: 1, H0703: 1, S0148: 1, H0724: 1, H0547: 1, H0519: 1, H0659: 1, H0648: 1, H0672: 1, H0710: 1, H0696: 1, S0406: 1, L0756: 1, L0777: 1, L0599: 1, L0601: 1, S0026: 1, S0242: 1 and H0542: 1.				132-152, 96-112, 77-93, 33- 49
							AR104: 8, AR061: 4, AR089: 3, AR060: 2, AR033: 2, AR039: 1, AR055: 1, AR096: 1, AR052: 0, AR053: 0 L0779: 6, H0556: 5, L0740: 5, H0052: 4, L0766: 3, H0521: 3, S0028: 3, L0756: 3, S0222: 2, H0553: 2, H0038: 2, L0804: 2, L0666: 2, L0665: 2, L0438: 2, H0658: 2, L0439: 2, L0749: 2, L0758: 2, L0601: 2, H0543: 2, H0255: 1, H0663: 1, S0420: 1, S0356: 1, S0358: 1, H0619: 1, L0717: 1, H0411: 1, H0550: 1, H0592: 1, H0587: 1, H0559: 1, H0486: 1, H0618: 1, H0390: 1, S0346: 1,				

620	HDPX59	862442	630	685 - 1038	2035	Met-1 to Arg-6.	H0581: 1, H0194: 1, H0121: 1, H0457: 1, H0050: 1, S0051: 1, H0594: 1, H0266: 1, H0271: 1, S0003: 1, H0328: 1, H0622: 1, H0644: 1, H0032: 1, H0135: 1, H0634: 1, H0616: 1, H0087: 1, H0551: 1, H0059: 1, H0100: 1, H0561: 1, S0448: 1, H0132: 1, H0633: 1, H0646: 1, S0002: 1, S0426: 1, L0796: 1, L0761: 1, L0764: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0775: 1, L0805: 1, L0789: 1, L0663: 1, H0703: 1, H0519: 1, H0682: 1, H0435: 1, H0648: 1, S0152: 1, H0696: 1, H0555: 1, S0206: 1, L0754: 1, L0752: 1, L0731: 1, L0757: 1 and H0423: 1.	4q11-q13	103600, 103600, 103600, 104150, 104150, 104500, 125490, 170650	95-118, 81-97, 40- 56
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621	HBCAY76	862450	631	56 - 1186	2036	Arg-68 to Gly-73, Arg-81 to Asn-86, Cys-128 to Glu-133, Arg-175 to Asp-184, Pro-315 to Ser-334, Ser-337 to Ser-360.	AR061: 8, AR039: 3, AR104: 2, AR033: 2, AR060: 1, AR053: 1, AR096: 0, AR055: 0, AR089: 0 L0748: 10, L0809: 5, L0777: 5, H0556: 4, L0769: 4, H0052: 3, S0206: 3, H0265: 2, L0764: 2, L0787: 2, L0439: 2, L0747: 2, L0601: 2, S0218: 1, L0426: 1, S0116: 1, H0484: 1, H0393: 1, H0370: 1, H0178: 1, H0123: 1, H0030: 1, H0553: 1, L0055: 1, H0494: 1, L0763: 1, L0770: 1, L0639: 1, L0773: 1, L0648: 1, L0805: 1, L0666: 1, L0664: 1, H0593: 1, H0659: 1, S0378: 1, H0696: 1 and L0759: 1.			1-19, 88- 105, 151- 167
622	HPJAV04	862479	632	166 - 1227	2037	Gln-30 to Cys-35, Leu-50 to Gln-61, Gly-133 to Phe-143, Pro-145 to Glu-157, Asp-178 to Glu-184, Arg-241 to Gln-247, Pro-260 to Leu-267, Phe-305 to Gln-312.	AR055: 10, AR104: 9, AR039: 7, AR060: 7, AR061: 7, AR052: 5, AR089: 5, AR053: 5, AR096: 5, AR033: 5 H0556: 3, H0341: 2, H0144: 2, L0743: 2, S0436: 2, H0543: 2, H0295: 1, H0661: 1, S0046: 1, H0587:			61-88, 288-304, 334-350

623	HHFMA59	862567	633	249 - 749	2038	Arg-127 to Tyr-132.	1, H0333: 1, H0486: 1, H0013: 1, H0618: 1, H0009: 1, H0024: 1, T0010: 1, H0553: 1, H0551: 1, T0042: 1, S0150: 1, S0142: 1, S0422: 1, L0787: 1, H0519: 1, S0152: 1, H0521: 1, H0134: 1, L0740: 1, L0779: 1, S0434: 1, S0194: 1, S0276: 1 and H0422: 1.				67-85, 8- 26, 109- 125
624	HNFDV96	862665	634	276 - 2423	2039	Ser-39 to Val-46, His-50 to Ser-58, Cys-86 to Ile-91, Phe-106 to Gly-111, Cys-123 to Ala-131, Leu-154 to Glu-170, Leu-225 to Arg-235, Glu-288 to Leu-294, Pro-397 to Thr-402, Asp-411 to Glu-417, Arg-449 to Arg-455, Ile-531 to Thr-537, Pro-578 to Arg-587,	AR104: 46, AR089: 34, AR096: 33, AR052: 31, AR033: 31, AR039: 30, AR053: 25, AR055: 18, AR060: 14, AR061: 9 H0619: 1 and S3014: 1. AR089: 1, AR055: 1, AR061: 1, AR060: 0, AR053: 0, AR039: 0, AR052: 0, AR096: 0, AR033: 0 H0624: 1, H0306: 1, H0497: 1, H0271: 1, H0521: 1 and L0595: 1.			234-256	

625	HNTAI35	862671	635	145 - 516	2040	Ser-647 to Thr-656, Asp-670 to Ala-675, His-682 to Asn-688.	AR096: 18, AR089: 14, AR039: 10, AR104: 8, AR060: 7, AR033: 6, AR053: 5, AR052: 5, AR055: 3, AR061: 2 H0046: 7, H0521: 7, H0556: 6, H0551: 5, H0265: 4, S0212: 4, H0585: 3, H0599: 3, S0002: 3, H0522: 3, H0149: 2, S0040: 2, H0341: 2, H0586: 2, H0024: 2, H0266: 2, S0250: 2, H0622: 2, H0634: 2, L0596: 2, T0002: 1, H0656: 1, H0638: 1, H0125: 1, S0418: 1, S0358: 1, S0132: 1, H0619: 1, H0437: 1, H0415: 1, H0592: 1, H0642: 1, H0486: 1, T0040: 1, H0250: 1, H0575: 1, H0618: 1, S0474: 1, H0123: 1, H0050: 1, H0012: 1, H0014: 1, H0373: 1, H0286: 1, H0039: 1, H0135: 1, H0022: 1, T0042: 1, H0560: 1, H0561: 1, S0144: 1, S0142: 1, S0344: 1, S0210: 1, L0378:			86-106, 19-36
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626	HCE3X63	862807	636	719 - 2422	2041	Ser-11 to Glu-17.	1, H0519: 1, H0593: 1, H0435: 1, S0390: 1, S0037: 1, S0027: 1, L0740: 1, L0779: 1, L0593: 1, L0601: 1 and H0422: 1.	1				20-50, 206-229, 167-189, 77-103, 58-75, 128-144, 240-256
627	HCE2K01	862851	637	103 - 915	2042	Ala-12 to Glu-27, Pro-35 to Ser-43, Pro-70 to Gly-79, Ser-92 to Val-98, Pro-166 to Leu-175, Ser-234 to Thr-246.	AR052: 3, AR053: 2, AR096: 2, AR055: 1, AR089: 1, AR060: 1, AR061: 0, AR033: 0, AR039: 0, AR104: 0	12q13				10777, 123940, 139350, 139350, 148040, 148041, 148043, 148070, 231550, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769,



										601928, 602116, 602153	
628	HJPCG05	862913	638	695 - 1072	2043	His-91 to Leu-97, Pro-108 to Gly-118, Leu-120 to Pro-126.	AR055: 19, AR053: 18, AR033: 15, AR052: 15, AR089: 12, AR039: 12, AR060: 10, AR061: 8, AR096: 6, AR104: 4 L0375: 3, H0575: 2, L0800: 2, L0794: 2, L0789: 2, H0556: 1, H0662: 1, S0418: 1, H0619: 1, H0549: 1, H0590: 1, H0052: 1, H0083: 1, H0266: 1, H0286: 1, H0644: 1, S0036: 1, H0433: 1, H0412: 1, H0413: 1, T0042: 1, S0144: 1, S0142: 1, S0344: 1, L0770: 1, L0761: 1, L0774: 1, H0518: 1, L0777: 1, L0758: 1 and H0665: 1.			64-89, 3- 19	
629	HOUFG48	863051	639	61 - 633	2044	Pro-10 to Leu-20, Asn-33 to Val-38.	AR055: 6, AR052: 5, AR033: 5, AR089: 5, AR053: 4, AR061: 4, AR060: 3, AR096: 3, AR039: 1, AR104: 1 L0752: 6, L0747: 5, L0438: 4, L0439: 4, S0007: 3, L0776: 3, H0686: 2,			115-134, 57-73	

630	HCYBG68	863308	640	154 - 1260	2045	Leu-178 to Gly-191, Glu-225 to Thr-232.	S0040: 2, T0039: 2, H0052: 2, H0009: 2, H0031: 2, H0068: 2, L0769: 2, L0809: 2, L0665: 2, L0749: 2, L0757: 2, L0758: 2, L0590: 2, L0599: 2, L0595: 2, H0294: 1, S0376: 1, S0360: 1, H0580: 1, H0550: 1, H0587: 1, H0486: 1, H0013: 1, H0581: 1, L0471: 1, H0023: 1, S0362: 1, H0266: 1, H0290: 1, H0428: 1, H0038: 1, H0551: 1, H0412: 1, T0041: 1, T0042: 1, H0561: 1, S0144: 1, H0538: 1, H0529: 1, L0637: 1, L0372: 1, L0773: 1, L0662: 1, L0626: 1, L0768: 1, L0766: 1, L0803: 1, L0519: 1, H0701: 1, H0547: 1, H0659: 1, H0660: 1, H0651: 1, H0539: 1, S0380: 1, H0710: 1, H0521: 1, H0214: 1, H0478: 1, H0540: 1, L0742: 1, L0743: 1, L0750: 1, L0777: 1, L0731: 1, S0434: 1, L0592: 1 and H0543: 1.				139-159
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631	HDTBD83	863372	641	268 - 603	2046	Gly-16 to Arg-21.	AR033: 4, AR055: 2, AR089: 2, AR060: 1, AR096: 1, AR061: 1, AR104: 0, AR039: 0, AR052: 0, AR053: 0 H0052: 2 and H0486: 1.	AR089: 1, AR053: 1, AR039: 0, AR061: 0, AR104: 0 S0007: 3, S0010: 2, S0028: 2, L0366: 2, H0170: 1, H0583: 1, S0001: 1, S0282: 1, T0114: 1, H0244: 1, S0346: 1, H0318: 1, H0581: 1, H0320: 1, H0051: 1, S0051: 1, S6028: 1, H0416: 1, H0644: 1, H0068: 1, H0551: 1, L0776: 1, H0701: 1, H0520: 1, L0439: 1, L0777: 1, L0592: 1, L0594: 1 and S0242: 1.				79-95, 21-37	
632	HCDEG27	863396	642	35 - 355	2047	Glu-45 to Phe-53.	AR039: 81, AR053: 42, AR033: 38, AR055: 34, AR052: 33, AR096: 31, AR104: 29, AR089: 28, AR060: 25, AR061: 17 H0251: 6, L0770: 2, L0762: 1 and L0757: 1.	AR039: 81, AR053: 42, AR033: 38, AR055: 34, AR052: 33, AR096: 31, AR104: 29, AR089: 28, AR060: 25, AR061: 17 H0251: 6, L0770: 2, L0762: 1 and L0757: 1.				60-93, 80-96	
633	HBXDJ07	863541	643	124 -	2048	Glu-62 to Lys-68.	AR033: 10, AR104: 5.	AR033: 10, AR104: 5.					1-20, 112-

				651	Asn-105 to Gly-113.	AR052: 3, AR096: 3, AR055: 2, AR053: 2, AR089: 1, AR061: 1, AR060: 1, AR039: 1 L0439: 6, S0222: 3, L0794: 3, H0052: 2, S6028: 2, S0038: 2, L0740: 2, L0756: 2, H0624: 1, H0171: 1, S6024: 1, H0013: 1, H0374: 1, H0050: 1, S0050: 1, H0051: 1, S0386: 1, H0144: 1, L0438: 1 and L0746: 1.			135, 77- 103	
634	HBKDA80	863586	644	71 - 676	2049	Gly-18 to Lys-25, Val-43 to Gly-48, Gly-56 to Arg-62.	AR104: 57, AR033: 49, AR061: 13, AR096: 12, AR089: 10, AR055: 9, AR060: 6, AR039: 4, AR052: 2, AR053: 1 L0748: 22, H0052: 19, S0036: 12, L0752: 10, L0439: 9, L0622: 8, S0051: 7, H0478: 7, L0623: 6, L0809: 6, L0747: 6, H0441: 5, H0599: 5, L0770: 5, L0666: 5, L0741: 5, L0743: 5, L0745: 5, S0049: 4, L0471: 4, L0794: 4, L0438: 4, S0330: 4, H0521: 4, L0742: 4, L0746: 4, L0485: 4, S0358: 3, H0687: 3,	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100,	136-152

				S0038: 3, S0438: 3, L0774: 3, L0659: 3, H0539: 3, L0779: 3, S6024: 2, S0001: 2, S0356: 2, H0645: 2, S6026: 2, S0222: 2, S6014: 2, H0455: 2, H0586: 2, H0194: 2, H0051: 2, H0201: 2, S0388: 2, T0010: 2, S0364: 2, L0455: 2, H0068: 2, H0135: 2, H0264: 2, S0112: 2, L0371: 2, L0769: 2, L0638: 2, L3905: 2, L5566: 2, L0800: 2, L0803: 2, L0664: 2, S0310: 2, H0660: 2, L0612: 2, L0744: 2, L0756: 2, L0361: 2, H0171: 1, H0713: 1, L0393: 1, L0785: 1, S0029: 1, S0408: 1, H0722: 1, S0007: 1, H0393: 1, S0300: 1, H0351: 1, H0549: 1, H0550: 1, H0357: 1, H0592: 1, H0587: 1, S0280: 1, H0156: 1, H0597: 1, H0327: 1, H0046: 1, H0150: 1, H0009: 1, H0569: 1, H0014: 1, S0362: 1, L0163: 1, H0408: 1, H0188: 1, H0284: 1, H0615: 1, H0428: 1, H0673: 1, H0708: 1, S0366: 1.	235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280; 602475
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635	HSSDP38	863587	645	214 - 1188	2050				T0004: 1, L0351: 1, S0352: 1, S0440: 1, S0144: 1, S0344: 1, L0763: 1, L0500: 1, L5575: 1, L0761: 1, L0646: 1, L0771: 1, L0648: 1, L0649: 1, L0804: 1, L0651: 1, L0805: 1, L0776: 1, L0542: 1, L0782: 1, L0783: 1, L0789: 1, L0790: 1, L0791: 1, S0053: 1, S0374: 1, H0520: 1, H0547: 1, H0593: 1, H0670: 1, H0522: 1, S0044: 1, H0555: 1, H0631: 1, S0432: 1, L0740: 1, L0750: 1, L0786: 1, L0755: 1, S0031: 1, H0445: 1, L0581: 1 and L0604: 1.	6p21.3	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900,	122-138	
									AR104: 42, AR033: 40, AR055: 13, AR061: 12, AR089: 9, AR096: 8, AR060: 7, AR052: 4, AR053: 3, AR039: 3, L0748: 22, H0052: 19, S0036: 12, L0752: 10, L0439: 9, L0622: 8, S0051: 7, H0478: 7, L0623: 6, L0809: 6, L0747: 6, H0441: 5, H0599: 5, L0770: 5, L0666: 5, L0741: 5, L0743: 5.				

5, L0745: 5, S0049: 4, L0471: 4, L0794: 4, L0438: 4, S0330: 4, H0521: 4, L0742: 4, L0746: 4, L0485: 4, S0358: 3, H0687: 3, S0038: 3, S0438: 3, L0774: 3, L0659: 3, H0539: 3, L0779: 3, S6024: 2, S0001: 2, S0356: 2, H0645: 2, S6026: 2, S0222: 2, S6014: 2, H0455: 2, H0586: 2, H0194: 2, H0051: 2, H0201: 2, S0388: 2, T0010: 2, S0364: 2, L0455: 2, H0068: 2, H0135: 2, H0264: 2, S0112: 2, L0371: 2, L0769: 2, L0638: 2, L3905: 2, L5566: 2, L0800: 2, L0803: 2, L0664: 2, S0310: 2, H0660: 2, L0612: 2, L0744: 2, L0756: 2, L0361: 2, H0171: 1, H0713: 1, L0393: 1, L0785: 1, S0029: 1, S0408: 1, H0722: 1, S0007: 1, H0393: 1, S0300: 1, H0351: 1, H0549: 1, H0550: 1, H0357: 1, H0592: 1, H0587: 1, S0280: 1, H0156: 1, H0597: 1, H0327: 1, H0046: 1, H0150: 1, H0009:	179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
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636	HSSGL44	863654	646	1668 - 1982	2051	Ala-17 to Ser-27, Arg-42 to Ser-57, Thr-72 to Gly-85.	1, H0569: 1, H0014: 1, S0362: 1, L0163: 1, H0408: 1, H0188: 1, H0284: 1, H0615: 1, H0428: 1, H0673: 1, H0708: 1, S0366: 1, T0004: 1, L0351: 1, S0352: 1, S0440: 1, S0144: 1, S0344: 1, L0763: 1, L0500: 1, L5575: 1, L0761: 1, L0646: 1, L0771: 1, L0648: 1, L0649: 1, L0804: 1, L0651: 1, L0805: 1, L0776: 1, L0542: 1, L0782: 1, L0783: 1, L0789: 1, L0790: 1, L0791: 1, S0053: 1, S0374: 1, H0520: 1, H0547: 1, H0593: 1, H0670: 1, H0522: 1, S0044: 1, H0555: 1, H0631: 1, S0432: 1, L0740: 1, L0750: 1, L0786: 1, L0755: 1, S0031: 1, H0445: 1, L0581: 1 and L0604: 1.					87-104
							AR055: 4, AR052: 4, AR096: 3, AR060: 3, AR033: 3, AR053: 3, AR089: 3, AR061: 2, AR104: 2, AR039: 0 L0439: 8, H0556: 6, L0766: 4, L0740: 4, S0420:					



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637	HBODY10	863665	647	6 - 875	2052	Ala-13 to Gly-18.	1 and H0542: 1. AR096: 8, AR060: 7, AR089: 6, AR055: 6, AR052: 6, AR053: 5, AR033: 5, AR104: 4, AR061: 4, AR039: 0 L0777: 3, H0624: 2, S0366: 2, L0779: 2, L0759: 2, L0604: 2, H0171: 1, H0149: 1, H0729: 1, H0741: 1, L0622: 1, L0623: 1, H0546: 1, H0213: 1, S0364: 1, H0708: 1 and L0636: 1.				93-114, 185-203, 56-72, 256-272, 20-36, 116-132
638	HDFUB58	863687	648	1229 - 1714	2053	Ser-20 to Lys-33, Glu-100 to Thr-111.	AR104: 5, AR033: 4, AR096: 3, AR089: 3, AR053: 3, AR055: 2, AR060: 2, AR061: 1, AR052: 1, AR039: 0 L0748: 9, L0777: 3, L0438: 2, L0751: 2, L0362: 2, H0381: 1, S0282: 1, S0045: 1, L0717: 1, L0037: 1, H0567: 1, L0471: 1, S6028: 1, H0163: 1, H0040: 1, H0100: 1, L0639: 1, L0775: 1, L0375: 1, L0776: 1, S0374: 1, S0330: 1, L0741: 1, L0743: 1, L0744: 1, L0439: 1 and L0756: 1.				108-134, 78-94, 139-155

639	HSMBE70	863709	649	586 - 900	2054	Gly-2 to Gly-10, Ser-56 to Cys-62.	AR096: 5, AR033: 4, AR053: 4, AR104: 4, AR052: 3, AR089: 3, AR060: 2, AR055: 1, AR061: 1, AR039: 0 H0295: 4, L0731: 4, S0040: 2, H0688: 2, L0775: 2, L0659: 2, H0521: 2, L0744: 2, H0713: 1, H0294: 1, S0298: 1, H0370: 1, H0586: 1, H0599: 1, S0364: 1, H0059: 1, L0769: 1, L0646: 1, L0764: 1, L0363: 1, L0776: 1, L0749: 1 and H0668: 1.				82-99, 63- 79
640	HEPAA94	863718	650	91 - 405	2055		AR039: 2, AR055: 2, AR104: 1, AR033: 1, AR060: 1, AR053: 0, AR089: 0, AR061: 0, AR096: 0, AR052: 0 S0212: 5, L0776: 3, S0404: 3, S0045: 2, L0665: 2, H0670: 2, L0777: 2, L0757: 2, S0342: 1, S0418: 1, H0339: 1, H0013: 1, L0021: 1, H0318: 1, H0545: 1, H0150: 1, T0079: 1, H0594: 1, H0188: 1, H0687: 1, H0252: 1, H0644: 1, H0616: 1, H0413: 1, L0794: 1	8p11.2- p11.1	136350, 152760, 180100, 182900, 277700, 600617	51-68, 24- 40, 84-100	

641	HHECU86	863734	651	90 - 737	2056	Ser-29 to His-36.	L0766: 1, L0803: 1, L0657: 1, L0809: 1, L0789: 1, L0790: 1, L0663: 1, H0144: 1, L0438: 1, H0658: 1, H0651: 1, L0743: 1, L0439: 1, L0758: 1, S0242: 1, S0194: 1 and S0021: 1.	6				188-204
642	HBXGQ49	863848	652	111 - 1058	2057	Gly-96 to Gly-102, Pro-114 to Trp-121.	AR039: 6, AR053: 5, AR052: 5, AR096: 5, AR089: 4, AR033: 4, AR104: 4, AR060: 3, AR055: 3, AR061: 2, L0766: 3, L0774: 3, S0126: 3, L0748: 3, H0551: 2, L0640: 2, L0770: 2, L0771: 2, L0649: 2, L0663: 2, L0740: 2, L0779: 2, L0731: 2, L0593: 2, H0542: 2, S0116: 1, S0420: 1, S0376: 1, S0360: 1, H0580: 1, H0497: 1, H0575: 1, H0581: 1, H0544: 1, H0050: 1, H0708: 1, H0714: 1, H0641: 1, L3904: 1, L0646: 1, L0642: 1, L0764: 1, L0666: 1, S0390: 1, L0745: 1, H0543: 1 and H0423: 1.					253-269

643	HCECL08	863887	653	207 - 992	2058	Leu-135 to Gly-145, Glu-189 to Phe-195, Cys-233 to His-239, Glu-283 to Thr-299.	AR096: 15, AR052: 9, AR055: 7, AR053: 6, AR039: 0, AR104: 0 H0051: 6, S0036: 4, L0770: 4, H0052: 3, L0769: 3, L0803: 3, S0010: 2, S0112: 2, S0282: 1, H0305: 1, H0261: 1, H0438: 1, S0346: 1, H0327: 1, H0046: 1, S0051: 1, H0100: 1, L0635: 1, L0741: 1 and S0260: 1.	1q21	104770, 107670, 110700, 135940, 145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200,	211-239, 1-18, 156- 172
						Tyr-24 to His-32, Pro-38 to Ala-44, Pro-66 to Glu-75, His-111 to Gly-116, Tyr-139 to Ser-146, Thr-176 to Ser-181, Lys-239 to Lys-249.	AR055: 10, AR060: 6, AR033: 6, AR061: 5, AR096: 5, AR052: 4, AR089: 4, AR053: 4, AR039: 4, AR104: 3 L0740: 9, L0748: 6, L0803: 3, L0777: 3, H0556: 2, L0741: 2, L0746: 2, H0392: 1, H0052: 1, H0009: 1, H0012: 1, H0620: 1, T0067: 1, L0598: 1, L0770: 1, L0769: 1, L0805: 1, L0783: 1, L0809: 1, H0144: 1, L0745: 1, L0749: 1, L0759: 1, S0031: 1, L0608: 1, L0593: 1, L0595: 1 and H0352: 1.			

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				2, L0663: 2, L0664: 2, S0374: 2, H0593: 2, H0539: 2, L0750: 2, L0779: 2, L0731: 2, L0759: 2, S0031: 2, L0596: 2, L0604: 2, L0601: 2, H0667: 2, S0024: 1, S0114: 1, H0341: 1, H0255: 1, H0661: 1, H0662: 1, H0638: 1, S0420: 1, H0675: 1, H0580: 1, S0132: 1, S0222: 1, H0455: 1, H0587: 1, H0333: 1, H0069: 1, H0427: 1, H0097: 1, H0098: 1, T0082: 1, H0706: 1, S0049: 1, H0196: 1, H0194: 1, H0597: 1, H0327: 1, H0545: 1, H0024: 1, H0373: 1, H0051: 1, H0510: 1, H0179: 1, H0288: 1, H0252: 1, H0615: 1, H0039: 1, S0364: 1, H0124: 1, S0366: 1, H0163: 1, H0090: 1, S0038: 1, H0561: 1, L0065: 1, H0647: 1, S0144: 1, S0344: 1, S0002: 1, L0598: 1, H0529: 1, L0640: 1, L0763: 1, L0770: 1, L0638: 1, L0637: 1, L0761: 1, L0646: 1, L0771: 1, L0773: 1, L0533: 1, L0775:								
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645	HYBAF24	863934	655	31 - 510	2060	Cys-51 to Arg-76, Glu-122 to Gln-129.	1, L0523: 1, L0379: 1, L0657: 1, L0783: 1, H0144: 1, H0520: 1, H0690: 1, H0659: 1, H0670: 1, H0648: 1, S0378: 1, S0152: 1, S0332: 1, H0522: 1, H0696: 1, H0436: 1, S3012: 1, S0028: 1, L0744: 1, L0752: 1, S0394: 1, L0588: 1, L0608: 1, S0192: 1 and S0276: 1.						101-117
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646	HEMET46	863977	656	201 -	2061	Thr-36 to Gln-49,	1, L0002: 1, S0358: 1, H0437: 1, H0602: 1, T0109: 1, H0599: 1, H0036: 1, H0004: 1, H0318: 1, H0581: 1, H0421: 1, H0052: 1, H0046: 1, H0041: 1, L0471: 1, H0024: 1, L0163: 1, S0051: 1, H0083: 1, H0188: 1, H0252: 1, H0615: 1, L0483: 1, T0006: 1, H0598: 1, H0040: 1, T0041: 1, S0440: 1, S0150: 1, S0142: 1, S0344: 1, L0369: 1, L0763: 1, L0770: 1, L0769: 1, L4747: 1, L0772: 1, L0372: 1, L0771: 1, L0794: 1, L0499: 1, L0776: 1, L0655: 1, L0807: 1, L0657: 1, L0513: 1, L0382: 1, L0809: 1, L0787: 1, L0664: 1, H0690: 1, H0659: 1, H0670: 1, H0660: 1, H0710: 1, S0152: 1, H0696: 1, H0704: 1, H0555: 1, S0028: 1, L0741: 1, L0740: 1, L0755: 1, L0757: 1, L0758: 1, H0595: 1, L0485: 1, S0026: 1, H0216: 1, H0543: 1, H0422: 1 and S0424: 1.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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				983		Thr-56 to Thr-64, Thr-93 to Asp-99, Gln-120 to Lys-133, Asp-145 to Gly-152, Glu-174 to Ser-180, Ala-183 to Tyr-188, Cys-216 to Ser-237, His-253 to Asn-261.	AR033: 5, AR089: 5, AR053: 4, AR052: 4, AR061: 4, AR096: 4, AR104: 3, AR039: 1 L0759: 8, L0598: 5, L0588: 3, S0360: 2, S0045: 2, L0471: 2, H0412: 2, L0803: 2, L0774: 2, L0776: 2, L0740: 2, L0752: 2, L0599: 2, S0116: 1, H0662: 1, S0444: 1, S0046: 1, H0592: 1, H0587: 1, H0574: 1, H0244: 1, H0427: 1, H0050: 1, H0014: 1, H0674: 1, S0366: 1, H0433: 1, H0413: 1, H0623: 1, T0042: 1, UNKWN: 1, L0665: 1, S0330: 1, S3012: 1, L0777: 1, H0343: 1 and S0446: 1.			1-17
647	HFXJM86	863982	657	246 - 1757	2062		AR052: 62, AR053: 48, AR055: 35, AR096: 29, AR089: 20, AR104: 17, AR039: 14, AR060: 13, AR033: 13, AR061: 8 H0599: 5, H0619: 2, S0366: 2, S0282: 1, S0029: 1, H0735: 1, H0200: 1, H0373: 1 and S6028: 1.			248-273, 116-135, 73-92, 299-316, 361-377, 428-444, 459-475, 6-22, 137- 153, 384- 400

648	HDTHL37	864023	658	121 - 897	2063	Ile-50 to Lys-57, Thr-71 to Val-78, Asn-81 to Ala-91, Cys-99 to Gly-105, Ser-138 to Thr-150.	AR033: 7, AR089: 7, AR039: 7, AR052: 6, AR096: 5, AR060: 5, AR061: 4, AR104: 4, AR053: 4, AR055: 3 L0748: 11, L0769: 7, L0766: 7, L0666: 6, L0754: 6, L0779: 6, H0620: 5, L0483: 5, L0770: 5, L0764: 5, L0747: 5, L0759: 5, H0013: 4, H0012: 4, L0776: 4, L0749: 4, L0777: 4, L0755: 4, L0594: 4, S0418: 3, S0360: 3, S0408: 3, H0244: 3, S0440: 3, L0771: 3, L0375: 3, L0663: 3, L0664: 3, L0665: 3, L0751: 3, L0757: 3, H0650: 2, H0038: 2, T0042: 2, H0494: 2, L0761: 2, L0662: 2, L0806: 2, H0519: 2, H0682: 2, H0660: 2, L0439: 2, L0740: 2, L0750: 2, L0758: 2, L0596: 2, H0422: 2, H0170: 1, H0556: 1, T0002: 1, H0686: 1, S0040: 1, S0114: 1, H0657: 1, H0341: 1, H0663: 1, S0356: 1, S0358: 1, H0393: 1, H0261: 1, S0222: 1, H0431: 1,				240-259, 112-128, 201-217, 26-42
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649	HBJFE32	864093	659	338 - 868	2064	Leu-82 to Thr-97.	H0404: 1, H0586: 1, L0623: 1, H0486: 1, H0427: 1, H0156: 1, H0706: 1, H0318: 1, S0474: 1, H0251: 1, H0309: 1, H0263: 1, H0041: 1, H0197: 1, H0266: 1, H0328: 1, L0194: 1, H0644: 1, H0180: 1, L0055: 1, H0068: 1, H0591: 1, H0063: 1, H0413: 1, H0100: 1, H0625: 1, S0438: 1, S0150: 1, H0646: 1, S0144: 1, S0142: 1, S0210: 1, S0002: 1, H0529: 1, L0369: 1, L0762: 1, L0763: 1, L0638: 1, L0667: 1, L0645: 1, L0648: 1, L0774: 1, L0775: 1, L0805: 1, L0654: 1, L0657: 1, L0659: 1, L0636: 1, L0518: 1, L0809: 1, H0689: 1, H0690: 1, H0684: 1, H0435: 1, H0670: 1, S0328: 1, S0330: 1, H0539: 1, S0380: 1, H0696: 1, H0576: 1, S0434: 1, L0591: 1, L0592: 1, S0026: 1, L0600: 1 and H0352: 1. AR055: 13, AR089: 12, AR033: 10, AR060: 10, AR104: 9, AR039: 8,			54-70, 100-116
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650	HSLDY71	864179	660	77 - 769	2065	Thr-83 to Asn-92.	AR096: 5, AR039: 4, AR089: 4, AR055: 4, AR060: 3, AR053: 3, AR033: 3, AR052: 3, AR104: 2, AR061: 2 H0521: 3, L0600: 3, L0805: 2, L0666: 2, H0547: 2, H0445: 2, H0265: 1, H0556: 1, S0342: 1, H0713: 1, T0008: 1, S0049: 1, H0052: 1, L0471: 1, H0598: 1, H0551: 1, H0561: 1, L0768: 1, L0438: 1, H0555:							

651	HULFN21	864272	661	680 - 3	2066	Gly-45 to Pro-80, Pro-110 to Gly-116, Pro-118 to Ala-132, Ser-146 to Ala-151, Thr-153 to Ser-163, Gln-171 to Pro-177, Ser-196 to Pro-222.	1, S0028: 1, L0439: 1, L0779: 1, L0757: 1, S0436: 1 and L0601: 1. AR055: 20, AR033: 14, AR089: 12, AR061: 10, AR053: 10, AR052: 10, AR060: 7, AR096: 6, AR104: 2, AR039: 0 L0747: 15, L0731: 11, H0657: 7, H0032: 7, L0752: 7, L0766: 6, L0775: 6, L0740: 6, L0749: 6, H0341: 5, H0318: 5, H0617: 5, L0755: 5, H0484: 4, S0360: 4, S0408: 4, S0222: 4, H0087: 4, L0769: 4, L0804: 4, L0776: 4, H0659: 4, L0742: 4, L0748: 4, L0751: 4, L0754: 4, H0661: 3, S0410: 3, H0486: 3, H0266: 3, L0803: 3, H0144: 3, H0547: 3, H0658: 3, S014: 3, L0758: 3, L0759: 3, H0543: 3, H0265: 2, H0685: 2, S0134: 2, S0116: 2, H0638: 2, S0418: 2, S0358: 2, H0392: 2, L0623: 2, H0013: 2, H0156: 2, H0530: 2, S0051: 2, H0083: 2, H0169: 2, H0616: 2, H0059:				83-110, 1- 17
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652	HCRPE50	864273	662	18 - 692	2067	Pro-5 to Arg-12, Gly-54 to Pro-89, Glu-125 to Ala-131, Ser-145 to Ala-150, Thr-152 to Ser-162.	1, H0674: 1, S0364: 1, H0708: 1, S0366: 1, H0598: 1, H0135: 1, H0090: 1, H0591: 1, H0038: 1, H0634: 1, H0268: 1, H0413: 1, H0100: 1, H0494: 1, H0560: 1, H0396: 1, H0561: 1, H0366: 1, S0294: 1, S0440: 1, H0509: 1, H0641: 1, S0144: 1, S0422: 1, S0002: 1, L0371: 1, L0631: 1, L0796: 1, L0639: 1, L0372: 1, L0773: 1, L0386: 1, L0774: 1, L0378: 1, L0653: 1, L0512: 1, L0659: 1, L0809: 1, L5623: 1, L0663: 1, H0520: 1, H0519: 1, H0689: 1, H0670: 1, H0672: 1, H0651: 1, H0539: 1, H0518: 1, H0522: 1, H0696: 1, S0118: 1, L0745: 1, L0756: 1, L0780: 1, L0757: 1, H0595: 1, S0434: 1, L0588: 1, L0592: 1, H0667: 1, H0542: 1 and S0462: 1.				92-119
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Gln-170 to Pro-176, Ser-195 to Lys-211.	L0747: 8, L0779: 7, H0657: 6, L0766: 6, L0751: 6, L0731: 6, L0794: 5, L0740: 5, H0341: 4, H0484: 4, H0318: 4, H0617: 4, H0087: 4, L0769: 4, H0659: 4, L0742: 4, L0754: 4, L0752: 4, H0661: 3, S0360: 3, S0410: 3, L0776: 3, H0658: 3, H0685: 2, S0134: 2, S0116: 2, S0358: 2, S0408: 2, S0222: 2, H0392: 2, H0486: 2, H0013: 2, H0156: 2, H0530: 2, S0051: 2, H0169: 2, H0616: 2, H0059: 2, S0438: 2, L0772: 2, L0521: 2, L0775: 2, L0805: 2, L0659: 2, L0526: 2, L0518: 2, L0663: 2, H0144: 2, H0690: 2, S0378: 2, H0696: 2, L0743: 2, L0749: 2, L0750: 2, L0777: 2, L0596: 2, H0352: 2, H0170: 1, H0265: 1, H0295: 1, H0483: 1, H0255: 1, H0663: 1, H0306: 1, H0638: 1, S0418: 1, S0356: 1, S0354: 1, S0046: 1, H0370: 1, H0333: 1, L0623: 1, H0485: 1, T0109: 1, S0010:
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					1, S0049: 1, H0251: 1, H0327: 1, H0546: 1, H0545: 1, H0150: 1, H0567: 1, H0570: 1, H0123: 1, H0081: 1, H0012: 1, H0620: 1, H0014: 1, H0373: 1, S0388: 1, T0010: 1, H0083: 1, H0510: 1, H0594: 1, H0266: 1, H0292: 1, H0688: 1, H0428: 1, H0604: 1, H0031: 1, H0644: 1, H0606: 1, L0055: 1, H0674: 1, S0364: 1, H0708: 1, S0366: 1, H0135: 1, H0268: 1, H0080: 1, H0100: 1, H0494: 1, H0396: 1, H0561: 1, H0366: 1, S0294: 1, S0440: 1, H0509: 1, H0641: 1, S0144: 1, S0422: 1, H0529: 1, L0369: 1, L0371: 1, L0770: 1, L0372: 1, L0764: 1, L0768: 1, L0386: 1, L0381: 1, L0774: 1, L0375: 1, L0378: 1, L0806: 1, L0655: 1, L0657: 1, L0809: 1, L0788: 1, H0520: 1, H0547: 1, H0519: 1, H0689: 1, H0670: 1, H0672: 1, H0651: 1, H0539: 1, S0118: 1, S3014: 1, S0206: 1, I0745:
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653	HDTLL66	864279	663	581 - 898	2068	Met-1 to Lys-14, Lys-19 to Cys-25, Pro-27 to Tyr-36, Asn-70 to Lys-78, Leu-96 to Trp-106.	1, L0780: 1, L0758: 1, L0759: 1, H0595: 1, S0434: 1, L0588: 1, H0653: 1, S0276: 1, H0542: 1, H0543: 1 and S0462: 1. AR055: 22, AR033: 19, AR061: 16, AR060: 15, AR089: 14, AR052: 9, AR053: 8, AR039: 5, AR096: 5, AR104: 5				36-52, 79- 95, 54-70
654	HWDAF64	864349	664	75 - 1061	2069	Pro-34 to Cys-39, Thr-155 to Thr-173, Gln-178 to Arg-183, His-209 to Ala-215, Ser-217 to Ser-223, Glu-244 to Pro-250.	AR039: 1, AR096: 1, AR033: 1, AR061: 1, AR089: 1, AR060: 1, AR053: 0, AR104: 0, AR052: 0, AR055: 0 L0769: 3, L0439: 3, L0415: 2, H0255: 2, L0770: 2, L0774: 2, L0663: 2, L0665: 2, L0438: 2, L0777: 2, L0731: 2, L0605: 2, H0580: 1, S0045: 1, S0222: 1, H0441: 1, H0370: 1, H0600: 1, H0333: 1, H0574: 1, H0618: 1, L0738: 1, H0135: 1, H0551: 1, H0413: 1, H0059: 1, H0646: 1, H0538: 1, L0763: 1, L0648: 1, L0766: 1, L0378: 1,				223-240, 277-293, 100-116, 185-201

655	HETJF10	864357	665	25 - 393	2070	Lys-116 to Thr-123.	L0809: 1, L4501: 1, H0593: 1, H0689: 1, H0658: 1, S0432: 1 and S0031: 1. AR089: 4, AR033: 3, AR061: 3, AR060: 2, AR055: 2, AR096: 1, AR052: 1, AR039: 0, AR053: 0, AR104: 0 S0342: 1, H0484: 1, S0358: 1, S6022: 1, H0046: 1, L0438: 1, H0593: 1, S0037: 1, L0439: 1 and L0759: 1.			94-114, 66-82, 15- 31
656	HBAGJ74	864391	666	10 - 375	2071	Met-1 to Leu-6, Gly-15 to Gln-22.	AR096: 4, AR039: 4, AR089: 3, AR052: 3, AR053: 3, AR060: 2, AR055: 2, AR033: 2, AR104: 2, AR061: 2 H0411: 2			91-108, 25-41, 52- 68
657	HT5EJ85	864392	667	45 - 551	2072	Pro-10 to Thr-18, Cys-22 to Gly-28, Arg-46 to Arg-51, Pro-53 to Tyr-58.	AR055: 8, AR033: 7, AR052: 7, AR104: 6, AR096: 6, AR060: 5, AR061: 5, AR053: 5, AR089: 5, AR039: 5 H0584: 4, L0783: 4, L0809: 4, L0758: 4, L0769: 3, L0439: 3, H0167: 2, H0295: 2, H0484: 2, H0411: 2, L0764: 2, L0662: 2,			61-80, 88- 104

658	HKAKL77	864545	668	25 - 519	2073	Met-1 to Arg-12, Asp-25 to Thr-34, Ala-37 to Pro-46, Leu-72 to Ser-79.	L0768: 2, L0438: 2, L0755: 2, L0601: 2, L0603: 2, H0294: 1, S0218: 1, H0657: 1, H0656: 1, L0785: 1, H0341: 1, H0661: 1, S0354: 1, L0717: 1, H0052: 1, H0544: 1, H0545: 1, H0510: 1, H0615: 1, H0628: 1, H0181: 1, H0038: 1, H0059: 1, H0130: 1, L0763: 1, L0770: 1, L0761: 1, L0644: 1, L0773: 1, L0766: 1, L0774: 1, L0378: 1, L0807: 1, L0659: 1, L0666: 1, L0664: 1, S0374: 1, T0068: 1, H0520: 1, S0126: 1, H0435: 1, H0660: 1, H0539: 1, H0521: 1, H0696: 1, H0444: 1 and H0543: 1. AR104: 46, AR033: 35, AR096: 29, AR052: 22, AR053: 15, AR089: 14, AR039: 13, AR060: 9, AR055: 4, AR061: 2 L0438: 2, L0748: 2, H0422: 2, H0664: 1, S0354: 1, H0619: 1, H0549: 1, H0431: 1, H0013: 1, H0156: 1, S0010: 1, H0123: 1, H0622: 1, T0023: 1, H0553:					78-104, 142-164, 116-135, 52-68
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659	HCFBY67	864566	669	38 - 403	2074	Ile-33 to Asp-46, Pro-51 to Cys-56, Gly-71 to Gly-81.	1, H0551: 1, H0494: 1, H0646: 1, H0529: 1, L0766: 1, H0520: 1, H0684: 1, H0672: 1, S0152: 1, H0521: 1, S0406: 1, L0439: 1, L0754: 1, L0756: 1 and S0194: 1. AR033: 15, AR089: 13, AR053: 9, AR052: 9, AR060: 8, AR055: 7, AR061: 7, AR096: 2, AR039: 0 S0136: 7, S0356: 2, S0410: 2, H0486: 2, H0672: 2, H0422: 2, H0170: 1, H0657: 1, H0692: 1, H0254: 1, H0402: 1, H0305: 1, S0358: 1, H0619: 1, L0717: 1, H0406: 1, H0599: 1, S0010: 1, T0115: 1, H0545: 1, S0051: 1, H0617: 1, H0264: 1, H0100: 1, L0659: 1, L0789: 1, L0665: 1, H0519: 1, H0414: 1, S0406: 1 and H0352: 1.				80-104	
660	HUCNL85	864609	670	270 - 899	2075	Gln-11 to Lys-21, Arg-119 to Ser-124.	AR039: 196, AR096: 179, AR052: 167, AR053: 140, AR089: 132, AR060: 86, AR104: 71, AR033: 59,				71-89, 38- 54	

661	HSDIW17	864772	671	357 - 884	2076		AR055: 35, AR061: 23 H0521: 5, H0370: 3, L0439: 3, H0341: 2, S0420: 2, H0592: 2, H0087: 2, L0792: 2, H0519: 2, S0418: 1, H0619: 1, H0393: 1, S0278: 1, H0392: 1, H0600: 1, H0586: 1, H0497: 1, S0049: 1, H0544: 1, L0471: 1, H0071: 1, H0083: 1, H0266: 1, H0288: 1, H0286: 1, S0036: 1, H0494: 1, S0150: 1, H0593: 1, H0539: 1 and L0759: 1.				117-141, 3-30, 39- 60, 96- 114, 148- 166, 73-89
662	HHETS46	864808	672	233 - 574	2077		AR053: 3, AR052: 3, AR096: 3, AR089: 2, AR055: 2, AR060: 1, AR104: 1, AR033: 1, AR061: 1, AR039: 0 S0050: 1, S0028: 1 and S0260: 1. AR052: 3, AR053: 3, AR096: 2, AR033: 2, AR089: 2, AR039: 1, AR055: 1, AR061: 1, AR060: 1, AR104: 1 L0757: 6, L0775: 4, L0731: 4, H0421: 3, L0774: 3, L0758: 3, S0040: 2.				56-72

663	HAPSD53	864818	673	93 - 1106	2078	Asn-9 to Thr-17, Ala-25 to Ser-36, Asn-66 to Tyr-75, Lys-123 to Tyr-145, Asn-154 to Phe-161, Ser-218 to Ala-228, Pro-240 to Ser-247, Thr-273 to Phe-278.	S0376: 2, T0048: 2, L0764: 2, L0809: 2, H0682: 2, S0028: 2, L0748: 2, L0755: 2, L0597: 2, L0588: 2, L0590: 2, H0543: 2, H0170: 1, T0049: 1, S0348: 1, S0420: 1, S0045: 1, S0046: 1, H0411: 1, T0104: 1, L0623: 1, H0486: 1, S0280: 1, H0599: 1, H0575: 1, H0581: 1, S0049: 1, H0183: 1, H0545: 1, H0266: 1, H0288: 1, H0628: 1, H0617: 1, H0090: 1, H0268: 1, H0413: 1, S0210: 1, L0762: 1, L0763: 1, L0770: 1, L0768: 1, L0663: 1, H0690: 1, H0435: 1, H0658: 1, S0380: 1, S0152: 1, H0555: 1, H0436: 1, L0749: 1, L0777: 1, L0753: 1, L0362: 1 and H0423: 1.					84-107
						AR055: 8, AR033: 6, AR089: 5, AR052: 5, AR053: 5, AR061: 4, AR060: 4, AR096: 3, AR104: 3, AR039: 0 L0439: 5, L0794: 4, H0253: 3, L0766: 3, H0618: 2, L0769: 2, L0800: 2.						



664	HAMFW6 6	864987	674	158 - 469	2079	Ala-301 to Pro-315, Arg-330 to Ala-338.	L0659: 2, L0789: 2, L0744: 2, L0749: 2, L0758: 2, H0265: 1, H0556: 1, S0360: 1, S0045: 1, S0222: 1, H0592: 1, H0069: 1, H0575: 1, H0318: 1, H0052: 1, H0083: 1, H0615: 1, H0038: 1, H0413: 1, H0494: 1, L0763: 1, L0770: 1, L0771: 1, L0662: 1, L0803: 1, L0378: 1, L0653: 1, L0629: 1, L0809: 1, L0666: 1, L0664: 1, L0438: 1, L0743: 1, L0754: 1, L0747: 1, L0750: 1, L0779: 1, L0777: 1, L0731: 1, L0596: 1, L0588: 1, L0605: 1 and H0352: 1.				58-83
							AR053: 3, AR052: 3, AR033: 2, AR096: 2, AR089: 2, AR055: 2, AR104: 1, AR060: 1, AR061: 0, AR039: 0 L0754: 12, S0410: 10, L0766: 9, L0591: 7, L0748: 4, L0752: 4, H0423: 4, H0556: 3, S0360: 3, L0646: 3, L0527: 3, L0596: 3, H0170: 2, H0265: 2, S0114: 2, S0218: 2, H0266: 2				

665	HTJMU48	865019	675	20 - 1015	2080	Gly-32 to Asn-51, Trp-72 to Ala-83,	H0615: 2, H0056: 2, H0560: 2, H0561: 2, L0803: 2, L0782: 2, H0547: 2, H0134: 2, H0436: 2, L0756: 2, H0445: 2, L0362: 2, H0543: 2, L0002: 1, H0650: 1, S0418: 1, H0208: 1, S0046: 1, S0476: 1, H0619: 1, H0437: 1, H0550: 1, T0114: 1, H0013: 1, T0048: 1, H0318: 1, L0109: 1, H0050: 1, L0471: 1, S0051: 1, H0083: 1, H0328: 1, H0622: 1, H0604: 1, H0031: 1, H0591: 1, H0551: 1, H0268: 1, H0623: 1, H0100: 1, H0132: 1, L0763: 1, L0667: 1, L0388: 1, L0804: 1, L0776: 1, L0606: 1, L0657: 1, L0659: 1, L0542: 1, L0518: 1, L0809: 1, L0791: 1, L0792: 1, L0793: 1, H0519: 1, H0682: 1, H0648: 1, S0330: 1, S0152: 1, S0406: 1, L0750: 1, L0779: 1, L0757: 1, L0759: 1, L0480: 1, H0542: 1 and H0506: 1.	19q13.2- q13.3	107741, 113900,	52-70
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666	HAUAE93	865020	676	73 - 684	2081	Thr-137 to Cys-145, Ser-157 to Gly-162, His-176 to Ala-183, Lys-199 to Asn-210, Arg-225 to Gly-230, Asp-248 to Val-254.	AR055: 4, AR052: 3, AR089: 3, AR060: 3, AR104: 2, AR061: 2			122720, 122720, 126340, 126391, 130410, 134790, 138570, 160900, 164731, 173850, 207750, 248600, 258501, 600040, 602225, 602225	72-93, 34- 57, 160- 179, 96- 116, 185- 201
						Gln-3 to Trp-9, Glu-15 to Asp-25, Asn-59 to Ser-69, Ser-138 to Tyr-145, Glu-147 to Tyr-153.	AR055: 11, AR033: 9, AR104: 9, AR060: 7, AR061: 6, AR052: 6, AR039: 6, AR089: 5, AR096: 4, AR053: 4	19q13.2- q13.3		107741, 113900, 122720, 122720, 126340, 126391, 130410, 134790, 138570, 160900, 164731, 173850, 207750, 248600.	

667	HAICK45	865026	677	234 - 1376	2082	Met-1 to Phe-9, Gln-16 to Gly-25, Val-42 to Thr-71, Asn-92 to Arg-100, Pro-107 to Lys-117, Leu-153 to Leu-163, Phe-176 to Trp-182, Arg-184 to Gln-192, Glu-250 to Gly-257, Phe-266 to Lys-272.	AR055: 7, AR052: 6, AR096: 5, AR060: 5, AR053: 5, AR033: 5, AR089: 4, AR061: 4, AR104: 3, AR039: 2 L0748: 9, L0794: 6, L0766: 6, L0439: 6, H0574: 3, H0046: 3, H0040: 3, L0662: 3, L0803: 3, L0740: 3, L0747: 3, H0423: 3, H0624: 2, S0358: 2, H0561: 2, L0598: 2, L0520: 2, L0665: 2, L0777: 2, L0758: 2, L0599: 2, S0106: 2, H0543: 2, H0171: 1, S0134: 1, S0218: 1, S0408: 1, S0132: 1, S0300: 1, H0411: 1, S0222: 1, L0623: 1, H0013: 1, L0021: 1, H0575: 1, H0581: 1, H0545: 1, L0163: 1, H0083: 1, H0032: 1, H0090: 1, H0551: 1, H0264: 1, H0647: 1, H0529: 1, L0770: 1, L0642: 1, L0768: 1, L0364: 1, L0649: 1, L0790: 1, L0666: 1,		258501, 600040, 602225, 602225	219-235, 318-334
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668	HBJKI39	865163	678	234 - 536	2083	Arg-5 to Lys-11, Thr-48 to Ile-53.	<p>           L0663: 1, H0144: 1, H0547:            1, H0684: 1, H0648: 1,            H0436: 1, H0478: 1, L0590:            1, L0608: 1, S0026: 1,            S0276: 1, S0424: 1 and            H0677: 1.            AR055: 13, AR033: 7,            AR060: 7, AR061: 7,            AR053: 6, AR052: 6,            AR089: 5, AR096: 5,            AR039: 3, AR104: 3            L0777: 9, L0758: 6,            H0424: 4, L0770: 4, H0341:            3, H0617: 3, L0749: 3,            L0757: 3, H0661: 2, S0358:            2, H0318: 2, S0049: 2,            H0598: 2, H0413: 2, L0763:            2, L0766: 2, L0775: 2,            L0789: 2, H0696: 2, L0744:            2, L0751: 2, L0747: 2,            L0750: 2, L0752: 2, H0170:            1, H0484: 1, S0354: 1,            S0046: 1, S0132: 1, H0587:            1, H0331: 1, H0632: 1,            H0250: 1, L0021: 1, S0010:            1, H0581: 1, H0085: 1,            H0597: 1, H0081: 1, H0012:            1, H0015: 1, H0615: 1,            L0142: 1, H0169: 1, H0163:            1, H0616: 1, H0059: 1,         </p>					58-80, 18- 38
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669	HAGHY26	865168	679	257 - 646	2084	Gln-34 to Leu-40, Thr-70 to Gly-92.	H0561: 1, H0633: 1, S0144: 1, S0142: 1, S0210: 1, L0769: 1, L0521: 1, L0768: 1, L0794: 1, L0774: 1, L0375: 1, L0806: 1, L0629: 1, L0659: 1, L0666: 1, S0374: 1, H0689: 1, H0660: 1, H0672: 1, S3012: 1, L0748: 1, L0740: 1, L0755: 1, L0603: 1, H0665: 1, S0192: 1 and H0542: 1.					4-21, 110- 126, 46-62
							AR096: 1, AR060: 1, AR089: 1, AR053: 1, AR039: 1, AR061: 0, AR052: 0, AR033: 0, AR104: 0, AR055: 0 H0052: 64, S0010: 22, L0438: 15, S0222: 13, S0346: 12, S6028: 12, L0366: 10, H0261: 9, T0010: 9, S0036: 9, S0049: 7, H0144: 7, L0439: 7, S0300: 6, L0592: 6, L0749: 5, H0438: 4, H0156: 4, S0051: 4, L0686: 4, S0007: 3, S6026: 3, H0194: 3, L0776: 3, S0028: 3, L0750: 3, L0753: 3, L0759: 3, L0589: 3, S6024: 2, H0441: 2, H0013: 2, H0390: 2,					

670	HCLSJ87	865172	680	40 - 498	2085	Pro-33 to Ser-41, Trp-65 to Ile-72.	H0051: 2, S0388: 2, L0768: 2, L0779: 2, L0684: 2, L0594: 2, L0411: 1, H0170: 1, S0400: 1, S0356: 1, S0616: 1, H0455: 1, N0009: 1, L2250: 1, N0006: 1, H0567: 1, L0471: 1, H0201: 1, L0455: 1, S0038: 1, S0386: 1, L0370: 1, L0638: 1, L0630: 1, L0363: 1, L0774: 1, L0657: 1, S0126: 1, H0696: 1, L0745: 1, L0755: 1, L0758: 1, L0688: 1, S0106: 1, H0667: 1, S0412: 1 and S0021: 1.				109-130
671	HJBAQ50	865176	681	39 - 404	2086		AR039: 2, AR052: 1, AR104: 1, AR060: 1, AR089: 1, AR033: 0, AR053: 0, AR061: 0, AR096: 0, AR055: 0  AR096: 3, AR033: 1, AR060: 1, AR052: 1, AR089: 1, AR061: 1, AR039: 0, AR053: 0, AR104: 0, AR055: 0 L0439: 6, L0438: 3, S0222: 2, H0271: 2, L0758: 2, S0001: 1 H0441: 1				80-97

672	HTELJ31	865259	682	332 - 808	2087	Trp-7 to Gln-15.	<p>S0010: 1, H0052: 1, S0050: 1, S0366: 1, T0042: 1, S0428: 1 and H0547: 1.</p> <p>AR061: 6, AR055: 5, AR033: 4, AR060: 4, AR053: 3, AR096: 3, AR089: 3, AR052: 3, AR039: 0</p> <p>L0769: 7, L0754: 7, L0748: 6, L0777: 6, L0759: 5, L0803: 4, L0747: 4, H0041: 3, L0775: 3, S0420: 2, S0358: 2, H0013: 2, H0427: 2, L0794: 2, L0804: 2, L0659: 2, L0789: 2, L0751: 2, L0749: 2, L0752: 2, L0587: 2, L0599: 2, L0603: 2, H0255: 1, S0356: 1, S0045: 1, H0411: 1, H0441: 1, H0009: 1, H0081: 1, H0024: 1, H0014: 1, T0006: 1, H0616: 1, L0536: 1, L0770: 1, L0638: 1, L0761: 1, L0771: 1, L0662: 1, L0767: 1, L0774: 1, L0375: 1, L0653: 1, L0633: 1, L0629: 1, L0636: 1, L0783: 1, L0666: 1, L0665: 1, S0052: 1, H0672: 1, H0436: 1, L0758: 1, S0260:</p>				95-111, 38-54, 77-93
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673	HPJBE61	865275	683	55 - 495	2088	Asp-12 to Pro-17, Ser-59 to Glu-66, Leu-102 to Gly-119, Pro-130 to Trp-143.	1, L0581: 1, L0604: 1, L0595: 1, L0361: 1 and S0192: 1. AR055: 11, AR096: 7, AR061: 6, AR039: 6, AR052: 5, AR060: 5, AR033: 5, AR089: 4, AR053: 4, AR104: 3 L0751: 7, L0758: 5, L0766: 4, H0250: 3, H0556: 2, H0544: 2, L0769: 2, L0747: 2, H0422: 2, H0265: 1, S0114: 1, S0134: 1, S0116: 1, H0663: 1, S0132: 1, H0586: 1, H0069: 1, H0427: 1, H0309: 1, H0150: 1, H0041: 1, H0510: 1, H0594: 1, S0022: 1, H0606: 1, S0036: 1, H0087: 1, T0042: 1, H0494: 1, L0475: 1, S0438: 1, H0641: 1, S0422: 1, L0771: 1, L0662: 1, L0655: 1, L0783: 1, L0792: 1, L0663: 1, H0672: 1, H0539: 1, S0152: 1, H0187: 1, L0750: 1, H0445: 1, S0434: 1, H0542: 1 and S0424: 1.				15-47, 71- 102
674	HLTCU22	865293	684	47 - 730	2089	Ser-83 to Gly-88,	AR052: 66, AR053: 56, S0424: 1.				178-196,

Pro-130 to Asn-137.	AR089: 32, AR055: 26, AR096: 24, AR039: 24, AR061: 18, AR060: 17, AR033: 14, AR104: 13 H0031: 4, L0794: 4, L0805: 4, H0419: 3, L0369: 3, L0776: 3, H0556: 2, H0657: 2, H0662: 2, L0766: 2, L0774: 2, L0790: 2, L0438: 2, S0126: 2, H0521: 2, S0028: 2, L0439: 2, L0747: 2, S0011: 2, H0265: 1, H0294: 1, S0001: 1, S0418: 1, S0420: 1, S0376: 1, S0360: 1, S0045: 1, S0222: 1, H0486: 1, H0013: 1, H0427: 1, H0309: 1, H0024: 1, S0388: 1, T0023: 1, H0212: 1, H0124: 1, H0090: 1, H0334: 1, S0440: 1, H0633: 1, L0371: 1, L0769: 1, L0772: 1, L0764: 1, L0363: 1, L0768: 1, L0653: 1, L0655: 1, L0807: 1, L0783: 1, L0789: 1, H0144: 1, H0702: 1, H0519: 1, H0690: 1, H0658: 1, H0670: 1, H0660: 1, S0044: 1, H0215: 1, L0748: 1, L0740: 1, L0746: 1, L0750:						89-105, 157-173
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675	HE8DZ49	865322	685	300 - 1565	2090	Lys-20 to Ser-27, Met-62 to Asp-75, Asp-85 to Gln-94, Glu-135 to Arg-160, Asn-195 to Glu-202, Ser-291 to Ser-298, Thr-314 to Leu-332, Pro-342 to Ser-351, Glu-357 to Arg-365.	1, L0756: 1, L0777: 1, L0759: 1, L0596: 1, L0589: 1, L0591: 1, L0599: 1, L0595: 1, L0601: 1, S0026: 1, H0542: 1, S0042: 1 and S0424: 1. AR096: 18, AR053: 15, AR033: 14, AR052: 14, AR060: 14, AR055: 13, AR089: 11, AR104: 10, AR061: 6, AR039: 5 L0731: 9, L0803: 8, L0749: 8, L0748: 5, L0439: 5, L0756: 4, L0759: 4, H0581: 3, L0766: 3, L0747: 3, H0013: 2, H0427: 2, H0052: 2, H0251: 2, H0050: 2, L0794: 2, L0789: 2, L0665: 2, L0777: 2, L0758: 2, L0599: 2, S0134: 1, S0442: 1, S0358: 1, H0411: 1, H0261: 1, H0431: 1, H0455: 1, H0574: 1, H0486: 1, S0010: 1, H0439: 1, H0569: 1, H0014: 1, H0375: 1, H0124: 1, S0036: 1, H0038: 1, S0210: 1, L0371: 1, L0521: 1, L0774: 1, L0809: 1, S0374: 1, L0438: 1, H0696: 1, S0044: 1,				366-396
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676	HEGAC86	865369	686	511 - 858	2091	Met-1 to Ala-13, Gly-29 to Trp-34, Pro-36 to Ala-42, Ser-70 to Cys-75.	H0436: 1, S0390: 1, L0750: 1, L0752: 1, S0276: 1, H0543: 1 and H0423: 1. AR055: 9, AR033: 7, AR060: 4, AR089: 4, AR052: 4, AR061: 4, AR096: 3, AR053: 3, AR039: 1, AR104: 0 L0776: 3, L0758: 3, L0764: 2, L0803: 2, L0805: 2, H0522: 2, L0748: 2, L0777: 2, H0550: 1, L0468: 1, S0280: 1, S0010: 1, L0471: 1, L0804: 1, L0657: 1, L0665: 1, S0126: 1, L0743: 1, L0750: 1, L0756: 1 and L0780: 1.	16q22	103850, 114835, 121360, 217800, 218030	90-106
677	HOUDS89	866090	687	20 - 559	2092	Glu-2 to Arg-14, Tyr-134 to Asp-140, Gln-151 to Asn-158.	AR052: 9, AR096: 7, AR060: 5, AR089: 5, AR053: 5, AR039: 4, AR055: 4, AR033: 4, AR104: 3, AR061: 3 L0769: 6, L0809: 4, H0585: 3, H0617: 3, H0181: 2, L0763: 2, L0768: 2, L0803: 2, L0805: 2, L0789: 2, S0040: 1, H0282: 1, L0796: 1, L0800: 1, L0794: 1, L0653: 1, L0776: 1,			46-72, 80- 98, 111- 127, 16-32

678	HCEVF41	866297	688	172 - 1149	2093	Gln-49 to Glu-54, Gln-67 to Ile-74.	<p>L0792: 1, L0793: 1, H0576: 1 and L0759: 1.</p> <p>AR039: 7, AR053: 5, AR096: 5, AR104: 3, AR089: 3, AR061: 3, AR060: 3, AR033: 2, AR052: 1, AR055: 1 H0618: 9, L0758: 9, H0253: 5, H0620: 3, L0439: 3, L0747: 3, H0255: 2, S0356: 2, H0617: 2, L0770: 2, S0028: 2, L0756: 2, L0361: 2, H0624: 1, S0040: 1, H0295: 1, H0656: 1, S0358: 1, S0444: 1, S0360: 1, S0045: 1, H0261: 1, S0222: 1, H0392: 1, H0085: 1, H0597: 1, H0545: 1, H0150: 1, H0009: 1, H0012: 1, H0606: 1, H0165: 1, H0598: 1, H0135: 1, H0272: 1, S0448: 1, L0644: 1, L0764: 1, L0767: 1, L0806: 1, L0809: 1, L0664: 1, S0374: 1, S0126: 1, H0670: 1, H0696: 1, S0037: 1, L0742: 1, L0740: 1, L0750: 1, L0777: 1, L0780: 1, L0731: 1, S0011: 1, H0667: 1, S0398: 1 and S0462: 1.</p>			<p>126-150, 274-300, 155-174, 18-39, 202-226, 1-17, 92- 108, 243- 259</p>
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679	HPWBO25	866302	689	62 - 694	2094	Pro-72 to Met-78.	AR089: 1, AR053: 1, AR033: 1, AR060: 1, AR039: 0, AR061: 0, AR096: 0, AR055: 0, AR052: 0, AR104: 0 L0604: 2, H0255: 1, H0018: 1, S0366: 1, S0044: 1, S0037: 1, S0028: 1 and S0031: 1.			150-183, 96-135, 76-95, 117-135, 54-70
680	HSKNJ56	866374	690	15 - 593	2095	Leu-37 to Lys-43, Pro-177 to Thr-184.	AR061: 3, AR096: 3, AR033: 2, AR060: 1, AR089: 1, AR052: 1, AR055: 1, AR104: 0, AR039: 0, AR053: 0 L0439: 5, L0435: 2, H0624: 1, S3012: 1, S3014: 1, L0747: 1 and L0749: 1.			103-123, 161-177
681	HSSKF43	866388	691	118 - 744	2096		AR089: 8, AR096: 7, AR104: 7, AR055: 6, AR060: 6, AR039: 6, AR052: 6, AR033: 5, AR053: 5, AR061: 3 L0665: 3, L0598: 2, L0519: 2, L0663: 2, L0754: 2, L0747: 2, H0265: 1, S0134: 1, H0640: 1, H0409: 1, H0581: 1, L0471: 1, H0135: 1, L0435: 1, H0509: 1, L0800: 1, L0803: 1,			84-109, 148-171, 6-24, 27- 43, 174- 190, 192- 208

682	HSKJK72	866398	692	13 - 429	2097	Gln-35 to Gly-45, Cys-113 to Val-123.	S0374: 1, L0438: 1, H0520: 1 and L0592: 1. AR055: 9, AR060: 6, AR052: 6, AR089: 5, AR061: 5, AR033: 5, AR053: 4, AR096: 4, AR039: 2, AR104: 2 H0545: 1 and S3014: 1.			61-82
683	HACBC20	866413	693	291 - 635	2098		AR052: 11, AR096: 6, AR053: 5, AR089: 5, AR060: 4, AR033: 4, AR061: 4, AR055: 4, AR039: 3, AR104: 3 L0805: 6, L0770: 5, L0803: 5, L0777: 5, L0776: 3, L0740: 3, L0750: 3, L0759: 3, H0599: 2, T0041: 2, H0670: 2, L0439: 2, L0747: 2, H0341: 1, S0418: 1, S0280: 1, H0318: 1, H0014: 1, S0250: 1, H0252: 1, H0328: 1, H0087: 1, H0494: 1, H0633: 1, L0763: 1, L0796: 1, L0651: 1, L0657: 1, L0558: 1, L0809: 1, L0789: 1, L0790: 1, L0666: 1, L0663: 1, H0519: 1, H0689: 1, H0710: 1, S0152: 1, S3014: 1, L0755:			1-35, 31- 60, 74-107

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684	HSDIS65	866560	694	71 - 961	2099				AR104: 20, AR033: 16, AR055: 10, AR096: 10, AR053: 10, AR052: 10, AR089: 7, AR060: 7, AR039: 5, AR061: 5 L0756: 7, L0777: 4, H0051: 3, S0003: 3, S0036: 3, S0408: 2, L0770: 2, L0546: 2, L0779: 2, L0596: 2, S0282: 1, S0358: 1, S0278: 1, H0574: 1, H0427: 1, H0590: 1, H0327: 1, H0622: 1, H0130: 1, L0771: 1, L0659: 1, L0665: 1, H0670: 1, H0521: 1, S0037: 1, L0742: 1, L0758: 1 and S0260: 1.											268-297, 30-50, 219-236, 142-161, 242-259, 189-205, 1-17
685	HHFEL55	866610	695	1698 - 1216	2100				AR033: 96, AR052: 86, AR104: 71, AR053: 68, AR089: 60, AR055: 47, AR096: 45, AR060: 35, AR061: 20, AR039: 15 H0620: 2, H0486: 1, H0050: 1, H0012: 1 and H0083: 1.											135-154
686	HSIDL28	866611	696	43 - 546	2101	Ser-4 to Pro-12,			AR052: 29, AR053: 26, 3q21-q25											106165, 149-167,



Pro-20 to Lys-30, Ser-59 to Phe-64, Pro-85 to Pro-91, Pro-118 to Gly-126, Thr-128 to Asp-143.	AR089: 21, AR033: 21, AR096: 20, AR060: 15, AR055: 15, AR104: 12, AR039: 8, AR061: 7 L0769: 10, L0766: 10, L0764: 7, L0751: 7, L0794: 6, L0743: 6, L0747: 6, L0757: 6, L0809: 5, L0748: 5, L0779: 5, H0052: 4, L0768: 4, L0803: 4, L0666: 4, H0170: 3, S0114: 3, L0774: 3, H0543: 3, H0254: 2, H0662: 2, H0370: 2, S0280: 2, H0318: 2, L0109: 2, H0123: 2, H0188: 2, H0687: 2, H0424: 2, H0031: 2, H0038: 2, H0494: 2, L0761: 2, L0772: 2, L0800: 2, L0662: 2, L0775: 2, L0805: 2, L0776: 2, L0664: 2, H0670: 2, L0750: 2, L0605: 2, L0592: 2, H0542: 2, H0624: 1, H0265: 1, H0650: 1, H0255: 1, H0661: 1, H0306: 1, H0305: 1, S0442: 1, S0376: 1, S0360: 1, H0580: 1, H0722: 1, H0351: 1, S0222: 1, H0592: 1, H0331: 1, H0486: 1, H0013: 1, H0036: 1, S0474:	117700, 117700, 150210, 169600, 180380, 180380, 180380, 190000, 203500, 222900, 232050, 276902, 600882, 601199, 601199, 601199, 601471, 601682	40-58
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687	HELD T78	866684	697	1814 - 3	2102	1, T0110: 1, H0545: 1, H0009: 1, H0081: 1, H0050: 1, L0471: 1, H0012: 1, T0010: 1, H0083: 1, H0271: 1, H0290: 1, H0328: 1, H0615: 1, H0428: 1, S0368: 1, H0033: 1, H0617: 1, S0364: 1, H0135: 1, H0087: 1, H0264: 1, T0041: 1, H0131: 1, H0646: 1, L0598: 1, L0763: 1, L5575: 1, L5565: 1, L0363: 1, L0767: 1, L0649: 1, L5564: 1, L0375: 1, L0806: 1, L0655: 1, L0527: 1, L0657: 1, L0542: 1, L0783: 1, L0791: 1, L0793: 1, L0663: 1, S0052: 1, L0438: 1, H0520: 1, S0126: 1, H0690: 1, H0682: 1, H0684: 1, S0378: 1, H0710: 1, H0521: 1, H0522: 1, S0044: 1, H0134: 1, S0406: 1, H0436: 1, H0576: 1, L0749: 1, L0777: 1, L0758: 1, L0759: 1, L0599: 1, H0423: 1 and H0677: 1.				149-168, 519-537, 102-118,
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									AR061: 1, AR039: 0, AR052: 0, AR053: 0 S0001: 2, H0059: 2, S0031: 2, S0282: 1, S0045: 1, H0619: 1, H0574: 1, S0050: 1, H0124: 1, S0144: 1, S0053: 1, S0044: 1, S0390: 1 and S0260: 1.					438-454, 56-72, 500-516, 1-17
688	HCMTA51	866733	698	21 - 743	2103				AR039: 42, AR104: 21, AR033: 20, AR055: 18, AR096: 17, AR053: 16, AR052: 15, AR089: 14, AR060: 12, AR061: 11 H0486: 1, H0230: 1 and S0260: 1.					103-128, 12-28, 61- 77, 137- 153
689	HSAZG23	866813	699	135 - 467	2104				AR089: 36, AR096: 27, AR053: 21, AR033: 20, AR060: 19, AR052: 18, AR039: 16, AR055: 12, AR104: 8, AR061: 5 L0523: 2, S0114: 1, L0748: 1 and L0749: 1.					58-75, 27- 44
690	HATDH85	866832	700	35 - 556	2105	Glu-3 to Arg-17, Ser-44 to Asp-50, Arg-107 to Gly-117.			AR089: 8, AR060: 7, AR055: 6, AR052: 5, AR033: 4, AR053: 4, AR061: 4, AR096: 3, AR104: 2, AR039: 1 L0748: 9, L0605: 6, H0031: 4, S0126: 4, L0754:					149-174, 117-136, 88-105

691	HTXNU58	866980	701	1158 - 1478	2106	Glu-5 to Trp-12, Leu-54 to Thr-59.	4, S0046: 3, H0052: 2, S0422: 2, L0803: 2, L0666: 2, L0663: 2, S0330: 2, S3014: 2, L0750: 2, H0686: 1, H0346: 1, S0420: 1, H0619: 1, H0431: 1, H0156: 1, H0575: 1, H0590: 1, H0581: 1, H0046: 1, H0123: 1, H0050: 1, H0373: 1, H0083: 1, H0266: 1, H0553: 1, H0628: 1, H0598: 1, S0036: 1, H0100: 1, H0494: 1, H0561: 1, S0440: 1, L0662: 1, L0794: 1, L0381: 1, L0650: 1, L0776: 1, L0540: 1, L0791: 1, H0144: 1, S0328: 1, S0152: 1, H0696: 1, S0406: 1, L0752: 1, S0260: 1, S0436: 1, L0604: 1, L0593: 1, S0242: 1 and H0543: 1.					85-106, 25-41
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692	HHSFI65	867000	702	67 - 846	2107			1, H0521: 1, H0522: 1, H0694: 1, H0134: 1, S0406: 1, S0028: 1, L0747: 1, H0445: 1, L0595: 1, H0542: 1 and S0424: 1.	11			185-202, 135-157, 153-169, 98-114
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693	HRADG27	867187	703	194 - 526	2108				1, S3014: 1, S0028: 1, L0439: 1, L0740: 1, L0756: 1, L0786: 1, L0780: 1, L0755: 1, H0445: 1, S0434: 1, S0436: 1, L0581: 1, L0595: 1, L0601: 1, H0667: 1, S0192: 1, H0542: 1 and S0424: 1.				33-50, 64- 80
694	HWBCE30	867206	704	23 - 388	2109				AR039: 33, AR053: 15, AR096: 13, AR033: 13, AR104: 12, AR052: 11, AR055: 11, AR089: 10, AR060: 9, AR061: 6 S0428: 1 and H0555: 1. AR039: 40, AR096: 24, AR053: 23, AR033: 21, AR104: 19, AR052: 16, AR089: 16, AR055: 15, AR060: 12, AR061: 7 H0580: 1, S0222: 1, H0271: 1, H0687: 1, H0488: 1, H0555: 1 and S0436: 1.				65-82, 106-122
695	HBGOF57	867330	705	528 - 187	2110	Pro-36 to Ser-43, Ala-75 to Asp-81.			AR104: 21, AR033: 8, AR055: 6, AR060: 6, AR052: 5, AR061: 5, AR096: 2, AR089: 2, AR039: 1, AR053: 0 L0747: 15, L0769: 14, L0789: 11, L0750: 11,				82-98, 56- 72

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696	HAPNX79	867380	706	345 - 1085	2111	Glu-28 to Asp-34, Ala-71 to Gly-77, Leu-91 to Ser-99, Ala-180 to Gly-185, Arg-223 to Pro-229.	H0641: 1, L0638: 1, L4747: 1, L0637: 1, L0800: 1, L0645: 1, L0773: 1, L0768: 1, L0364: 1, L0499: 1, L0803: 1, L0775: 1, L0378: 1, L0806: 1, L0655: 1, L0659: 1, L0526: 1, L0809: 1, L0666: 1, T0068: 1, H0658: 1, H0670: 1, H0672: 1, H0651: 1, H0522: 1, H0436: 1, L0439: 1, L0740: 1, L0786: 1, H0445: 1, H0542: 1, H0543: 1 and S0424: 1.				228-246
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H0657: 5, H0575: 5, H0052: 5, H0024: 5, H0529: 5, L0520: 5, L0764: 5, L0659: 5, L0663: 5, L0665: 5, H0659: 5, L0439: 5, L0747: 5, S0040: 4, H0402: 4, S0420: 4, S0356: 4, S0358: 4, H0619: 4, H0333: 4, H0318: 4, H0581: 4, H0309: 4, H0038: 4, L0369: 4, L0768: 4, L0782: 4, H0144: 4, H0670: 4, S0330: 4, L0757: 4, H0445: 4, L0591: 4, L0604: 4, H0423: 4, H0624: 3, H0686: 3, S0134: 3, H0656: 3, S0116: 3, S0360: 3, S0408: 3, H0580: 3, H0351: 3, H0431: 3, H0618: 3, H0046: 3, H0012: 3, H0620: 3, H0428: 3, H0674: 3, H0090: 3, T0041: 3, L0761: 3, L0772: 3, L0540: 3, S0374: 3, H0519: 3, H0672: 3, H0651: 3, H0539: 3, S0206: 3, L0758: 3, S0031: 3, L0588: 3, L0362: 3, H0136: 3, H0422: 3, H0170: 2, H0171: 2, H0717: 2, H0716: 2, S0114: 2, H0671: 2, H0662: 2.
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	S0376: 2, S0444: 2, H0637: 2, S0046: 2, S0005: 2, H0486: 2, T0114: 2, S0280: 2, H0156: 2, H0036: 2, H0544: 2, H0545: 2, S0051: 2, H0355: 2, H0594: 2, H0266: 2, H0271: 2, S0003: 2, H0039: 2, T0006: 2, H0424: 2, H0553: 2, H0169: 2, L0455: 2, S0366: 2, H0591: 2, H0634: 2, H0087: 2, T0067: 2, H0412: 2, H0413: 2, H0623: 2, T0069: 2, L0351: 2, S0440: 2, L0372: 2, L0375: 2, L0651: 2, L0655: 2, L0517: 2, L0384: 2, L0382: 2, L0532: 2, L0664: 2, H0699: 2, H0684: 2, H0696: 2, S0406: 2, L0754: 2, L0756: 2, S0434: 2, L0587: 2, L0597: 2, L0605: 2, L0581: 2, L0608: 2, L0593: 2, L0594: 2, L0595: 2, L0361: 2, L0603: 2, S0011: 2, S0276: 2, L0600: 2, H0352: 2, H0556: 1, H0685: 1, L0785: 1, S0282: 1, H0483: 1, H0661: 1, H0663: 1, H0664: 1, S0442: 1, S0354: 1					
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	S0476: 1, H0645: 1, S0278: 1, H0261: 1, S0222: 1, S0220: 1, H0370: 1, H0592: 1, H0497: 1, H0574: 1, H0632: 1, H0559: 1, T0039: 1, T0040: 1, T0109: 1, H0244: 1, H0250: 1, H0002: 1, H0706: 1, H0004: 1, H0274: 1, H0120: 1, S0346: 1, H0505: 1, S0049: 1, H0310: 1, H0194: 1, H0204: 1, T0115: 1, H0009: 1, H0565: 1, H0050: 1, L0471: 1, S0050: 1, H0373: 1, H0083: 1, H0188: 1, H0687: 1, H0028: 1, S0314: 1, S0250: 1, H0615: 1, H0688: 1, H0604: 1, H0401: 1, H0031: 1, H0644: 1, H0617: 1, S0364: 1, H0708: 1, H0068: 1, H0598: 1, H0063: 1, H0264: 1, H0268: 1, H0059: 1, H0100: 1, T0042: 1, H0560: 1, H0396: 1, S0438: 1, H0509: 1, H0647: 1, H0646: 1, H0652: 1, S0144: 1, S0344: 1, H0538: 1, S0210: 1, S0002: 1, L0770: 1, L0769: 1, L0627: 1, L0374: 1, L0662: 1				
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697	HAIJBZ74	867423	707	1228 - 398	2112			L0364: 1, L0794: 1, L0551: 1, L0533: 1, L0803: 1, L0650: 1, L0774: 1, L0376: 1, L0653: 1, L0657: 1, L0559: 1, L0544: 1, H0697: 1, H0701: 1, T0068: 1, H0693: 1, H0520: 1, H0547: 1, H0593: 1, H0690: 1, H0682: 1, H0435: 1, S0378: 1, H0710: 1, H0521: 1, S0044: 1, H0694: 1, H0555: 1, H0576: 1, L0612: 1, H0540: 1, S0037: 1, S3014: 1, S0028: 1, L0744: 1, L0751: 1, L0786: 1, L0779: 1, L0752: 1, L0755: 1, S0260: 1, S0436: 1, L0589: 1, L0590: 1, L0592: 1, L0601: 1, S0026: 1, H0653: 1, S0194: 1, H0542: 1, S0424: 1, S0458: 1 and H0506: 1.	Xp11.3- p11.23	300047, 300062, 300071, 300110, 300600, 301000, 301000, 301830,	157-173, 94-110, 18-34, 199-215
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698	HKATA81	867546	708	51 - 467	2113	Ser-39 to Asn-45, Asn-103 to Ser-109.	<p>L0542: 2, L0666: 2, L0352: 2, L0754: 2, L0756: 2, L0731: 2, L0596: 2, S0134: 1, H0393: 1, S0222: 1, L0021: 1, T0082: 1, L0471: 1, H0012: 1, H0135: 1, H0494: 1, H0560: 1, H0561: 1, H0633: 1, H0529: 1, L0803: 1, L0774: 1, L0806: 1, H0651: 1, H0539: 1, H0521: 1, H0555: 1, S0028: 1, S0032: 1, L0748: 1, L0747: 1, L0749: 1, L0592: 1, L0608: 1, L0366: 1, H0543: 1 and L0600: 1.</p> <p>AR096: 6, AR053: 5, AR052: 5, AR060: 4, AR039: 4, AR033: 4, AR089: 4, AR104: 3, AR055: 2, AR061: 1, S0007: 4, L0731: 3, L0748: 2, L0747: 2, H0686: 1, H0484: 1, S0420: 1, H0580: 1, S0278: 1, H0098: 1, S0346: 1, H0688: 1, H0644: 1, H0413: 1, H0512: 1, L0646: 1, L0774: 1, L0775: 1, H0519: 1, H0626: 1, L0750: 1, L0752: 1 and L0592: 1.</p>	<p>304020, 309470, 309500, 309610, 309850, 310500, 311050, 312060, 312600</p>	<p>1-31, 51-77, 117-138</p>
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699	HPMLG49	867555	709	135 - 1172	2114	Ala-28 to Tyr-34, Lys-56 to Cys-64, Gly-191 to Gly-196, Lys-339 to Asp-346.	AR055: 10, AR033: 9, AR060: 9, AR052: 7, AR089: 7, AR061: 6, AR039: 4, AR096: 4, AR053: 4, AR104: 2 H0023: 6, H0266: 5, H0286: 5, H0038: 4, S3014: 3, L0439: 3, S0011: 3, S0046: 2, H0635: 2, H0510: 2, H0616: 2, S0404: 2, H0436: 2, S0027: 2, S0040: 1, S0134: 1, S0116: 1, S0442: 1, S0444: 1, S0410: 1, H0393: 1, H0549: 1, H0431: 1, H0455: 1, H0600: 1, H0599: 1, T0082: 1, T0115: 1, H0544: 1, H0545: 1, H0563: 1, L0471: 1, H0267: 1, H0292: 1, S0214: 1, H0031: 1, H0644: 1, S0036: 1, H0163: 1, S0440: 1, L0662: 1, L0803: 1, L0805: 1, L0656: 1, L0558: 1, L0517: 1, L0809: 1, L0665: 1, H0144: 1, L0438: 1, H0520: 1, H0710: 1, H0522: 1, H0696: 1, H0478: 1, S0028: 1, S0206: 1, L0749: 1, S0434: 1, S0436: 1, L0596: 1, L0603: 1,				3-26, 126- 153, 198- 224, 163- 181, 287- 305, 237- 253, 97- 115, 36- 52, 77-93
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700	HPMJN59	867569	710	87 - 665	2115		H0667: 1 and H0136: 1, AR039: 54, AR033: 32, AR053: 30, AR096: 29, AR052: 29, AR104: 27, AR055: 26, AR089: 22, AR060: 19, AR061: 13 H0644: 2				65-81, 130-146
701	HKAED76	867582	711	49 - 906	2116		AR096: 3, AR052: 1, AR033: 1, AR089: 0, AR055: 0, AR053: 0, AR060: 0, AR061: 0, AR104: 0, AR039: 0 S0192: 11, L0731: 10, L0748: 8, L0659: 7, L0757: 7, H0036: 6, S0360: 5, L0754: 5, L0747: 5, L0599: 5, H0328: 4, L0598: 4, L0740: 4, L0779: 4, H0575: 3, H0251: 3, L0749: 3, L0759: 3, H0486: 2, S0280: 2, L0021: 2, S0250: 2, H0644: 2, H0163: 2, H0494: 2, L0369: 2, L0520: 2, L0770: 2, L0637: 2, L0773: 2, L0662: 2, L0526: 2, L0666: 2, L0665: 2, H0144: 2, S0126: 2, H0648: 2, L0751: 2, L0750: 2, L0752: 2, L0755: 2, L0758: 2,				195-222, 82-107, 49-70, 5- 33, 118- 144, 157- 179, 139- 155

702	HSPAD49	867588	712	228 -	2117		L0362: 2, S0026: 2, S0194: 2, S0196: 2, H0717: 1, L0002: 1, S0212: 1, H0669: 1, H0661: 1, S0418: 1, S0356: 1, S0442: 1, S0358: 1, H0489: 1, H0329: 1, H0339: 1, H0208: 1, H0411: 1, H0587: 1, S0414: 1, H0013: 1, H0318: 1, H0123: 1, H0050: 1, H0373: 1, H0266: 1, S0318: 1, H0687: 1, H0615: 1, H0039: 1, H0622: 1, L0194: 1, H0135: 1, H0591: 1, H0551: 1, T0069: 1, L0769: 1, L0772: 1, L0372: 1, L0768: 1, L0766: 1, L0649: 1, L0375: 1, L0805: 1, L0653: 1, L0518: 1, L0783: 1, L0647: 1, L0788: 1, L0664: 1, S0374: 1, H0689: 1, H0658: 1, H0670: 1, H0651: 1, S0330: 1, H0539: 1, H0521: 1, S3012: 1, S0390: 1, S3014: 1, S0027: 1, L0744: 1, L0745: 1, H0445: 1, H0595: 1, H0707: 1, L0589: 1, L0605: 1, S0242: 1, H0543: 1 and S0458: 1.				AR089: 2, AR096: 1,	80-96, 40-
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703	HARMV22	867612	713	183 - 494	2118		536		AR060: 1, AR053: 1, AR104: 1, AR033: 1, AR061: 1, AR039: 0, AR055: 0 L0754: 4, L0809: 2, L0666: 2, S0330: 2, L0777: 2, H0663: 1, H0600: 1, H0592: 1, H0586: 1, H0644: 1, H0494: 1, L0772: 1, L0662: 1, L0794: 1, L0665: 1, S0328: 1, H0518: 1, S0004: 1, H0478: 1, L0439: 1, L0779: 1, L0731: 1 and L0759: 1.				56, 18-34
									AR052: 6, AR089: 5, AR053: 4, AR055: 4, AR061: 3, AR060: 3, AR096: 3, AR033: 3, AR039: 1, AR104: 1 L0748: 14, L0731: 8, L0666: 6, L0662: 4, L0775: 4, L0740: 4, L0779: 4, L0769: 3, L0659: 3, L0439: 3, L0755: 3, L0588: 3, H0150: 2, H0529: 2, L0763: 2, L0772: 2, L0646: 2, L0655: 2, L0527: 2, L0518: 2, L0783: 2, L0664: 2, L0665: 2, H0547: 2, H0689: 2, S0206: 2, L0751: 2,				21-54, 68- 89

704	HSDIY76	867686	714	13 - 1020	2119	Leu-134 to Lys-139.	L0752: 2, L0757: 2, L0758: 2, L0608: 2, L0593: 2, H0556: 1, S0418: 1, S0360: 1, S0410: 1, H0619: 1, H0592: 1, H0586: 1, H0333: 1, H0270: 1, H0251: 1, H0309: 1, T0110: 1, H0545: 1, H0041: 1, H0057: 1, S0051: 1, H0188: 1, L0483: 1, H0553: 1, H0674: 1, H0634: 1, H0272: 1, H0623: 1, H0059: 1, S0450: 1, H0647: 1, S0002: 1, L0761: 1, L0764: 1, L0767: 1, L0768: 1, L0375: 1, L0651: 1, L0784: 1, L0654: 1, L0657: 1, L0515: 1, L0658: 1, L0383: 1, L0809: 1, L0663: 1, L0438: 1, H0519: 1, H0684: 1, H0670: 1, H0672: 1, L0754: 1, L0747: 1, L0750: 1, L0591: 1, L0485: 1, L0595: 1, L0601: 1, S0106: 1, H0668: 1, H0543: 1 and H0423: 1.	1p32-p34	120950, 120960, 130500, 133200, 138140,	304-320, 5-21, 31- 47, 255- 271
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705	HPJEV26	867728	715	132 - 848	2120	Met-1 to Arg-6, Asp-64 to Leu-75, Arg-80 to Tyr-88, Lys-107 to Leu-114, Leu-159 to Lys-169.	S0003: 1, H0031: 1, L0779: 1, S0260: 1 and L0366: 1.	168360, 171760, 171760, 176100, 176100, 178300, 187040, 230000, 255800, 600101, 600650, 600650, 600722, 600722	133-155, 186-203
						AR053: 9, AR052: 9, AR055: 9, AR039: 8, AR033: 8, AR096: 6, AR089: 6, AR060: 6, AR104: 6, AR061: 4 L0754: 8, L0748: 5, L0794: 3, L0766: 3, L0777: 3, S0116: 2, S0360: 2, L0717: 2, S0222: 2, H0615: 2, H0135: 2, L0659: 2, L0665: 2, H0521: 2, L0439: 2, H0171: 1, H0556: 1, S0342: 1, H0657: 1, H0484: 1, S0046: 1, H0549: 1, H0392: 1, H0486: 1, H0013: 1, H0318: 1, H0597: 1,			

706	HPJEV91	867729	716	208 - 531	2121	Ile-2 to Thr-7, Tyr-74 to Val-79.	AR055: 8, AR096: 5, AR060: 5, AR061: 4, AR033: 4, AR053: 4, AR089: 3, AR052: 3, AR039: 2, AR104: 0 H0486: 2, H0494: 2, L0749: 2, L0759: 2, L0591: 2, L0361: 2, H0676: 1, S0003: 1, H0688: 1, H0553: 1, L0764: 1, L0768: 1, L0794: 1, L0766: 1, L0803: 1, L0792: 1, L0793: 1,	H0530: 1, L0471: 1, T0010: 1, S0340: 1, H0328: 1, H0688: 1, H0622: 1, L0483: 1, H0553: 1, H0644: 1, H0591: 1, H0038: 1, H0264: 1, H0494: 1, H0625: 1, S0372: 1, H0633: 1, L0769: 1, L0796: 1, L0761: 1, L0649: 1, L0775: 1, L0776: 1, L0809: 1, L0792: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, H0689: 1, H0658: 1, S0152: 1, H0436: 1, L0749: 1, L0750: 1, L0779: 1, L0752: 1, L0731: 1, L0758: 1, L0591: 1, L0608: 1, L0362: 1, H0668: 1 and S0026: 1.				37-74, 14- 30
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707	HAMGK18	867752	717	33 - 485	2122	Met-4 to Gln-9, Gln-16 to Pro-21, Phe-60 to Asp-67, Ser-118 to Ser-129, Thr-134 to Trp-144.	L0438: 1, H0520: 1, S0126: 1, H0659: 1, H0648: 1, S0152: 1, L0755: 1 and S0436: 1. AR033: 5, AR055: 4, AR052: 4, AR053: 3, AR104: 3, AR060: 3, AR096: 3, AR089: 2, AR039: 1, AR061: 1 S0126: 6, H0046: 4, S0003: 3, L0794: 3, L0766: 3, L0439: 3, L0747: 3, L0759: 3, S0278: 2, L0805: 2, L0740: 2, L0745: 2, L0755: 2, L0595: 2, H0624: 1, H0170: 1, S0116: 1, H0341: 1, H0638: 1, S0420: 1, S0442: 1, S0358: 1, H0437: 1, H0574: 1, H0036: 1, H0581: 1, L0040: 1, H0457: 1, H0373: 1, S0214: 1, H0039: 1, H0031: 1, H0598: 1, H0090: 1, H0616: 1, H0551: 1, H0560: 1, H0646: 1, S0426: 1, L0769: 1, L0662: 1, L0803: 1, L0776: 1, L0438: 1, H0659: 1, H0658: 1, H0648: 1, S0152: 1, H0521: 1, H0522: 1, L0780: 1, L0758: 1,					102-118
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708	HCHOH94	867777	718	55 - 570	2123	Arg-32 to Ser-39, Pro-64 to Ser-69.	S0436: 1 and S0242: 1, AR055: 2, AR033: 2, AR089: 1, AR052: 1, AR060: 1, AR096: 1, AR061: 1, AR053: 1, AR104: 0, AR039: 0 H0484: 1, S0358: 1, H0069: 1, T0041: 1 and H0543: 1.				121-151, 68-84, 145-161
709	HPJDA25	867778	719	336 - 818	2124	Ser-4 to Ser-14, Pro-39 to Ser-44.	AR055: 8, AR060: 4, AR033: 4, AR061: 4, AR052: 3, AR096: 3, AR089: 3, AR039: 2, AR104: 1, AR053: 1 H0553: 1, S0152: 1 and H0423: 1.				95-123, 43-59
710	HJACF33	867890	720	187 - 528	2125	Pro-22 to Glu-27, Leu-69 to Ser-76, Gln-107 to Glu-114.	AR096: 45, AR089: 41, AR033: 27, AR060: 22, AR053: 21, AR052: 17, AR039: 17, AR055: 15, AR104: 11, AR061: 8 L0753: 2, S0114: 1, H0486: 1, H0166: 1, T0041: 1, H0521: 1, H0444: 1, L0366: 1, H0543: 1 and H0677: 1.				48-69
711	HHFMP57	867925	721	2353 - 1079	2126	Cys-6 to Arg-20, Arg-27 to Glu-38, Leu-165 to Ala-171,	AR055: 9, AR096: 6, AR033: 6, AR060: 6, AR052: 5, AR061: 4,				252-268, 391-407, 317-333,

					Gly-184 to Ser-196, Arg-204 to Asn-209, Pro-241 to Glu-246.	AR053: 4, AR089: 3, AR104: 2, AR039: 1 L0748: 5, H0656: 3, S0045: 3, H0486: 3, H0599: 2, H0318: 2, H0266: 2, H0682: 2, H0658: 2, H0436: 2, S0028: 2, H0542: 2, H0265: 1, H0556: 1, S0040: 1, H0458: 1, S0360: 1, H0619: 1, H0392: 1, H0635: 1, S0280: 1, H0042: 1, H0581: 1, H0052: 1, L0471: 1, H0620: 1, H0024: 1, H0107: 1, T0010: 1, H0179: 1, H0271: 1, H0328: 1, H0264: 1, H0488: 1, H0494: 1, H0529: 1, L0761: 1, L0766: 1, L0629: 1, L0657: 1, L0636: 1, L0666: 1, L0665: 1, H0519: 1, H0689: 1, H0670: 1, H0521: 1, S0032: 1, L0743: 1, L0744: 1, L0747: 1, L0750: 1, L0731: 1, L0758: 1, H0543: 1, H0423: 1, H0422: 1 and H0352: 1.					79-95, 295-311, 148-164
712	HELGD39	867938	722	83 - 856	2127	Met-1 to Val-7.	AR096: 79, AR052: 61, AR053: 59, AR039: 54, AR089: 51, AR033: 44, AR104: 44, AR060: 37				131-148, 210-226

713	HMACX92	867995	723	173 - 1159	2128	Glu-129 to Trp-136, Asn-312 to Glu-318.	AR055: 36, AR061: 24 S0222: 2, H0038: 2, H0519: 2, L0756: 2, S0045: 1, S0300: 1, H0486: 1, S0010: 1, H0194: 1, L0157: 1, L0171: 1, H0615: 1, H0617: 1, H0616: 1, L0794: 1, L0665: 1, H0658: 1, L0779: 1, L0752: 1 and S0398: 1.					165-188, 294-310, 270-286, 19-35, 76- 92
							AR061: 5, AR060: 3, AR055: 3, AR033: 2, AR089: 2, AR096: 2, AR052: 2, AR104: 1, AR053: 1, AR039: 0 S0144: 4, L0803: 2, H0682: 2, H0521: 2, H0295: 1, L0005: 1, H0645: 1, H0549: 1, T0060: 1, H0327: 1, H0545: 1, H0050: 1, H0012: 1, H0620: 1, H0510: 1, H0687: 1, H0617: 1, H0059: 1, S0438: 1, S0440: 1, H0509: 1, H0641: 1, S0002: 1, L0646: 1, L0800: 1, L0374: 1, L0794: 1, L0804: 1, L0775: 1, L0656: 1, L0809: 1, L0790: 1, L0664: 1, S0052: 1, H0520: 1, L0749: 1, H0653: 1 and					

714	HMKCV39	868004	724	25 - 354	2129	Ala-3 to Gly-9.	S0194: 1. AR096: 5, AR053: 4, AR089: 3, AR039: 3, AR052: 3, AR033: 3, AR060: 3, AR104: 2, AR061: 2, AR055: 1 H0295: 6, L0758: 6, H0545: 4, L0754: 4, L0759: 3, H0170: 2, H0255: 2, L0766: 2, L0649: 2, L0665: 2, H0696: 2, H0177: 1, H0549: 1, H0392: 1, H0587: 1, H0333: 1, H0327: 1, L0695: 1, H0328: 1, H0674: 1, H0616: 1, S0142: 1, H0529: 1, L0762: 1, L0769: 1, L0800: 1, L0658: 1, L0659: 1, L0783: 1, L0809: 1, L0528: 1, H0547: 1, S0136: 1, S0390: 1, L0740: 1, L0747: 1, L0777: 1 and L0752: 1.			51-72, 24-40
715	HNTOE45	868031	725	10 - 516	2130		AR089: 7, AR033: 6, AR060: 6, AR096: 5, AR039: 3, AR052: 3, AR053: 3, AR055: 2, AR104: 2, AR061: 2 L0527: 2, H0657: 1, H0341: 1, S0222: 1, H0438:			12-35, 49-70, 123-140, 142-158, 90-106

716	HCUFV69	868130	726	4 - 357	2131				1, T0048: 1, S0049: 1, S0250: 1, S0036: 1, H0087: 1, H0561: 1, L0369: 1, L0388: 1, L0518: 1, H0520: 1, H0519: 1, H0435: 1, L0366: 1 and L0697: 1.				92-118, 20-36, 62-78
									AR089: 16, AR060: 16, AR033: 15, AR061: 2, AR096: 2, AR055: 1, AR104: 1, AR039: 0, AR052: 0, AR053: 0, S0144: 10, L0775: 10, S0278: 6, H0638: 5, H0641: 5, H0580: 4, S0142: 4, H0521: 4, H0522: 4, L0747: 4, S0428: 3, H0402: 2, S0358: 2, S0408: 2, S0140: 2, H0392: 2, H0086: 2, L0520: 2, L0763: 2, L0772: 2, L0771: 2, L0774: 2, L0776: 2, L0526: 2, H0658: 2, L0743: 2, L0751: 2, L0754: 2, L0756: 2, L0605: 2, S0134: 1, S0116: 1, H0662: 1, H0306: 1, S0444: 1, S0360: 1, H0637: 1, S0045: 1, S0222: 1, S6014: 1, H0438: 1, H0592: 1, H0250: 1, H0069: 1, H0575: 1, T0082: 1, H0036: 1.				

717	HMVCZ54	868140	727	203 - 877	2132	Gly-4 to Cys-14.	<p>H0581: 1, H0457: 1, H0354: 1, H0247: 1, H0271: 1, L0055: 1, S0036: 1, S0438: 1, H0646: 1, L0770: 1, L0769: 1, L0764: 1, L0375: 1, L0787: 1, S0053: 1, S0374: 1, H0682: 1, H0648: 1, H0710: 1, L0744: 1, L0755: 1, L0731: 1, L0758: 1, L0603: 1, H0423: 1 and H0352: 1.</p> <p>AR061: 20, AR039: 18, AR053: 15, AR055: 15, AR052: 14, AR033: 13, AR096: 13, AR089: 13, AR104: 12, AR060: 11 L0748: 9, S0422: 6, L0752: 5, S0196: 5, S0212: 4, L0803: 4, L0754: 4, L0749: 4, L0599: 4, S0242: 4, L0790: 3, L0439: 3, L0779: 3, S0360: 2, L0105: 2, H0046: 2, S0003: 2, L0794: 2, L0766: 2, L0775: 2, L0655: 2, L0565: 2, L0352: 2, H0521: 2, L0750: 2, L0777: 2, L0731: 2, L0758: 2, S0436: 2, S0026: 2, H0543: 2, H0624: 1, H0171: 1, S0116: 1, H0483:</p>						<p>24-52, 152-174, 74-90, 184-200, 130-146, 106-122, 54-70</p>
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718	HMSHI94	868172	728	364 - 663	2133	Gln-9 to Gly-24, Val-32 to Thr-40, Phe-59 to Gly-66.	1, S0356: 1, S0442: 1, H0580: 1, S0045: 1, S0046: 1, H0643: 1, H0574: 1, T0040: 1, H0052: 1, H0083: 1, H0553: 1, H0708: 1, S0036: 1, H0135: 1, H0591: 1, H0038: 1, H0641: 1, L0769: 1, L0639: 1, L0806: 1, L0659: 1, L0809: 1, L0793: 1, L0438: 1, S0126: 1, H0672: 1, H0539: 1, H0522: 1, H0696: 1, S0390: 1 and L0757: 1. AR033: 4, AR089: 3, AR060: 3, AR052: 2, AR053: 2, AR096: 2, AR104: 1, AR061: 1, AR055: 0 H0271: 1, S0002: 1 and L0766: 1.	1p35-p34	118210, 120550, 120570, 120575, 121800, 130500, 133200, 138140, 138971, 168360, 171760, 171760, 172411, 176100, 176100, 178300, 185470,	42-58	
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719	HAPTE80	868238	729	150 - 1091	2134	Ser-15 to Leu-22, Glu-166 to Glu-173, Lys-181 to Met-186.	AR052: 8, AR055: 8, AR033: 6, AR053: 5, AR060: 5, AR089: 4, AR096: 4, AR061: 3, AR104: 2, AR039: 1 H0144: 3, S0114: 1, H0619: 1, T0114: 1, H0575: 1, L0483: 1, H0435: 1, H0539: 1, L0439: 1, L0588: 1 and L0592: 1.		230000, 230350, 255800, 602771	70-89, 32- 49, 91-107
720	HSLJC72	868253	730	74 - 412	2135	Tyr-10 to Asp-15, Asp-64 to Gly-72, Gln-74 to Lys-85.	AR052: 866, AR096: 756, AR089: 424, AR060: 372, AR053: 278, AR104: 179, AR033: 176, AR039: 159, AR061: 108, AR055: 30			15-41, 41- 63, 86-107
721	HWBCR21	868312	731	173 - 514	2136	Phe-95 to Glu-105.	AR053: 4, AR052: 4, AR096: 4, AR039: 4, AR033: 3, AR089: 3, AR060: 2, AR104: 2, AR055: 2, AR061: 1 S0408: 1, H0580: 1, H0486: 1, H0012: 1, L0794: 1, L0803: 1, L0805: 1, L0790: 1, L0792: 1 and			67-95, 1- 19, 52-68, 24-40



722	HKAAU27	868368	732	1016 - 1375	2137	Leu-40 to Asp-48, Lys-92 to Gly-98.	H0522: 1. AR096: 5, AR052: 4, AR033: 4, AR053: 3, AR089: 3, AR055: 2, AR104: 2, AR060: 2, AR061: 2, AR039: 0 H0617: 2, L0662: 2, L0779: 2, L0759: 2, H0716: 1, H0583: 1, H0580: 1, H0549: 1, H0643: 1, L0021: 1, H0581: 1, H0051: 1, H0688: 1, H0059: 1, H0494: 1, H0695: 1, L0770: 1, L0761: 1, L0766: 1, L0803: 1, L0809: 1, H0436: 1, H0540: 1, L0756: 1, L0608: 1, L0603: 1 and S0026: 1.				71-91, 15- 35
723	HOSCJ09	868369	733	42 - 659	2138	Asn-38 to Phe-46.	AR055: 12, AR053: 11, AR033: 10, AR052: 10, AR039: 10, AR060: 10, AR096: 9, AR104: 8, AR089: 8, AR061: 6 L0439: 7, L0805: 4, S0003: 2, L0438: 2, S0114: 1, L0415: 1, S0358: 1, H0580: 1, H0619: 1, H0013: 1, H0036: 1, S0474: 1, H0251: 1, S0388: 1, L0761: 1, L0667: 1, L0794: 1,				16-35, 159-176, 55-71, 101-117, 138-154

724	HWBAE15	868370	734	746 - 1093	2139	Asn-53 to Phe-61.	L0523: 1, L0776: 1, L0659: 1, L0809: 1, L0787: 1, L0790: 1, L0666: 1, H0593: 1, H0711: 1, L0756: 1, L0779: 1, L0755: 1, L0591: 1 and H0423: 1.				31-50, 70- 86	
725	HWAFN46	868440	735	242 - 601	2140	Pro-28 to Pro-34, Glu-46 to Lys-51, Ala-73 to Pro-80.	AR052: 1, AR053: 1, AR033: 1, AR061: 0, AR039: 0, AR089: 0, AR096: 0, AR104: 0, AR060: 0, AR055: 0 L0438: 4, L0439: 4, S0003: 3, L0805: 3, L0415: 2, S0114: 1, S0358: 1, H0580: 1, H0619: 1, H0013: 1, H0036: 1, S0474: 1, H0251: 1, S0388: 1, L0761: 1, L0667: 1, L0794: 1, L0523: 1, L0776: 1, L0659: 1, L0809: 1, L0787: 1, L0790: 1, L0666: 1, H0593: 1, H0711: 1, L0756: 1, L0779: 1, L0755: 1 and H0423: 1.				79-103, 52-69	

726	HWAET91	868475	736	201 - 641	2141	Ser-35 to Gln-42, Ser-94 to Glu-101.	H0581: 1 and S0250: 1. AR096: 3, AR089: 2, AR039: 2, AR052: 2, AR060: 2, AR053: 1, AR033: 1, AR061: 1, AR055: 1, AR104: 1 H0581: 1, L0766: 1 and L0749: 1.				55-81, 123-141, 79-95, 43- 59, 18-34
727	HDPMO69	868484	737	120 - 941	2142	Ser-12 to Tyr-18, Glu-34 to Val-45, Pro-71 to Asn-76, Tyr-84 to Lys-95, Thr-153 to Tyr-158, Glu-241 to Tyr-250, Asp-252 to Gln-263.	AR060: 1, AR096: 1, AR089: 1, AR104: 1, AR055: 1, AR061: 1, AR053: 0, AR033: 0, AR039: 0, AR052: 0 S0036: 2, L0754: 2, L0596: 2, T0049: 1, H0632: 1, H0069: 1, H0098: 1, H0581: 1, H0375: 1, L0794: 1, L0766: 1, L0803: 1, H0519: 1, H0660: 1, H0521: 1, H0522: 1, L0745: 1, S0196: 1 and H0423: 1.				93-120, 215-231
728	HELMH41	868568	738	322 - 1812	2143	Met-1 to Arg-7, Leu-11 to Lys-18, Ser-25 to Trp-33, Asn-67 to Asn-73, Glu-133 to Leu-147.	AR055: 8, AR060: 5, AR052: 5, AR033: 4, AR053: 4, AR039: 4, AR089: 3, AR096: 3, AR061: 2, AR104: 2 L0748: 11, L0438: 4, L0758: 4, H0038: 3, H0521: 3, L0731: 3, S0222: 2,				102-122, 150-166, 275-291, 393-409, 244-260, 170-186

729	HEQCA95	868765	739	75 - 614	2144	Gln-21 to Cys-27.	H0333: 2, H0050: 2, T0042: 2, L0794: 2, L0766: 2, L0664: 2, H0144: 2, L0759: 2, L0593: 2, H0484: 1, S0418: 1, S0442: 1, S0410: 1, S0045: 1, H0393: 1, L0717: 1, H0411: 1, S0278: 1, H0586: 1, H0642: 1, S0010: 1, S0474: 1, H0421: 1, H0046: 1, H0457: 1, H0051: 1, S0250: 1, H0615: 1, H0039: 1, H0674: 1, H0059: 1, L0564: 1, H0561: 1, S0422: 1, S0426: 1, L0763: 1, L0372: 1, L0641: 1, L0764: 1, L0803: 1, L0774: 1, L0809: 1, L0665: 1, H0698: 1, S0378: 1, H0518: 1, S0152: 1, S0406: 1, S3014: 1, S0027: 1, L0754: 1, L0747: 1, L0749: 1, L0786: 1, L0779: 1, L0752: 1, L0755: 1, L0604: 1, S0192: 1, S0242: 1, H0543: 1 and S0021: 1.				97-128, 27-55, 64-86, 140-157
							AR096: 23, AR089: 23, AR104: 21, AR033: 16, AR060: 15, AR052: 14, AR053: 11, AR055: 9, AR039: 8 AR061: 3				

730	HAGEG94	868792	740	134 - 580	2145	Thr-6 to Glu-11, Lys-14 to Cys-20, Ser-51 to Ala-58, His-140 to Thr-148.	S0358: 9, H0544: 2, H0545: 2, H0551: 2, S0002: 2, L0803: 2, H0672: 2, L0755: 2, S0420: 1, S0376: 1, S0278: 1, H0635: 1, L0022: 1, H0042: 1, H0575: 1, H0204: 1, H0266: 1, L0194: 1, H0644: 1, H0591: 1, H0634: 1, H0488: 1, H0623: 1, S0344: 1, S0426: 1, L0771: 1, L0804: 1, S0053: 1, H0547: 1, H0435: 1, H0696: 1, S0406: 1, L0751: 1, L0757: 1, S0434: 1, L0591: 1 and S0458: 1. AR055: 8, AR060: 5, AR096: 5, AR061: 4, AR052: 4, AR033: 4, AR089: 4, AR053: 3, AR104: 3, AR039: 2 H0056: 5, L0775: 3, L0439: 3, H0170: 2, S0124: 2, L0740: 2, L0786: 2, S0420: 1, S0442: 1, H0587: 1, H0013: 1, S0010: 1, S0003: 1, H0032: 1, L0763: 1, L0770: 1, L0764: 1, L0768: 1, L0803: 1, L0793: 1, L0666: 1, H0539: 1, L0779: 1, L0777: 1, L0759:					92-108, 73-89
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731	HWAFX90	868808	741	146 - 487	2146	Gln-58 to Val-63.	1, S0434: 1, S0436: 1 and H0543: 1. AR089: 16, AR033: 7, AR060: 7, AR104: 5, AR096: 3, AR055: 2, AR052: 2, AR053: 2, AR061: 1, AR039: 1 S0328: 9, L0770: 7, S0418: 6, S0410: 5, H0486: 5, L0455: 3, H0494: 3, H0659: 3, H0666: 3, H0648: 3, L0752: 3, H0624: 2, H0663: 2, H0638: 2, S0420: 2, S0358: 2, S0007: 2, H0393: 2, H0013: 2, H0581: 2, L0471: 2, S0438: 2, S0440: 2, S0144: 2, L0637: 2, L0766: 2, L0651: 2, L0518: 2, L0382: 2, L0519: 2, L0665: 2, H0672: 2, S0380: 2, L0592: 2, H0543: 2, H0171: 1, H0713: 1, T0049: 1, H0583: 1, H0650: 1, H0656: 1, S0354: 1, S0376: 1, S0408: 1, T0008: 1, H0637: 1, H0580: 1, H0351: 1, H0392: 1, H0592: 1, T0114: 1, H0635: 1, H0706: 1, S0182: 1, H0421: 1, H0052: 1, H0571: 1, H0615:	2p22-p21	120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300, 601071, 601771, 602134	90-106, 62-78, 35- 51, 14-30
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732	HHFGM33	868870	742	244 - 1005	2147		1, H0688: 1, H0428: 1, T0006: 1, H0644: 1, H0090: 1, H0264: 1, H0488: 1, H0413: 1, H0623: 1, H0059: 1, T0042: 1, L0475: 1, H0561: 1, L0065: 1, S0210: 1, H0529: 1, L0640: 1, L0648: 1, L0768: 1, L0774: 1, L0775: 1, L0379: 1, L0657: 1, L0793: 1, L0666: 1, L0438: 1, H0658: 1, H0660: 1, S0406: 1, H0436: 1, S0390: 1, S3014: 1, L0748: 1, L0750: 1, L0753: 1, L0755: 1, L0758: 1, S0436: 1, H0422: 1 and H0352: 1.				11-37, 71- 94, 43-59, 129-145, 104-120, 152-168
							AR089: 4, AR033: 4, AR060: 4, AR061: 2, AR096: 1, AR055: 1, AR104: 1, AR052: 0, AR039: 0, AR053: 0 H0521: 3, H0519: 2, H0717: 1, S0442: 1, H0434: 1, H0050: 1, H0615: 1, H0628: 1, H0135: 1, H0412: 1, L0638: 1, H0539: 1, S0152: 1, H0576: 1, S0206: 1, L0740: 1, L0594: 1 and H0543: 1.				

733	HTEQK83	868928	743	500 - 931	2148	Lys-7 to Ser-16, Tyr-70 to Arg-75.	AR060: 13, AR089: 9, AR052: 8, AR096: 8, AR033: 6, AR053: 4, AR061: 4, AR104: 0, AR055: 0 H0250: 60, S0126: 24, H0013: 9, H0124: 9, H0494: 8, H0521: 7, H0428: 6, H0553: 6, H0038: 6, S0027: 6, S0040: 5, T0039: 5, H0050: 5, L0471: 5, H0644: 5, H0135: 5, H0551: 5, T0067: 5, H0144: 5, H0539: 5, S0028: 5, L0439: 5, L0740: 5, H0171: 4, S0356: 4, S0046: 4, H0586: 4, H0486: 4, H0599: 4, H0046: 4, H0024: 4, H0266: 4, S0003: 4, H0040: 4, H0059: 4, S0152: 4, L0603: 4, H0556: 3, S0222: 3, H0574: 3, H0156: 3, S0010: 3, H0581: 3, H0620: 3, H0014: 3, H0015: 3, H0373: 3, S0022: 3, H0031: 3, H0547: 3, H0519: 3, H0522: 3, L0748: 3, H0624: 2, H0265: 2, H0295: 2, S0212: 2, H0484: 2, H0661: 2, H0125: 2, S0418: 2, H0208: 2,				75-103, 28-53, 116-132
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	S0045: 2, H0619: 2, H0645: 2, H0550: 2, H0431: 2, H0370: 2, H0427: 2, H0575: 2, H0618: 2, S0049: 2, H0530: 2, H0545: 2, H0012: 2, H0375: 2, H0179: 2, H0286: 2, H0615: 2, H0039: 2, H0622: 2, H0032: 2, H0068: 2, H0090: 2, H0616: 2, H0264: 2, H0268: 2, H0100: 2, T0042: 2, S0294: 2, S0142: 2, H0517: 2, H0651: 2, S0037: 2, H0506: 2, H0157: 1, H0294: 1, H0671: 1, H0662: 1, S0420: 1, S0358: 1, S0376: 1, S0360: 1, H0580: 1, H0393: 1, H0437: 1, H0369: 1, H0549: 1, H0409: 1, H0602: 1, H0587: 1, H0642: 1, L0477: 1, T0040: 1, H0635: 1, H0097: 1, H0036: 1, S0346: 1, H0421: 1, H0230: 1, H0196: 1, H0251: 1, T0115: 1, H0086: 1, H0009: 1, H0081: 1, H0197: 1, H0023: 1, H0023: 1, H0107: 1, T0010: 1, H0271: 1, S0318: 1, S0334: 1, S0316: 1, H0284: 1, S0314: 1					
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734	HULFK26	868929	744	141 - 839	2149	Lys-7 to Ser-16, Tyr-70 to Arg-75, Pro-135 to Gln-143, Cys-186 to Val-195, Met-221 to Tyr-230.	S0250: 1, S0214: 1, H0328: 1, L0483: 1, H0212: 1, H0708: 1, S0036: 1, H0634: 1, H0488: 1, H0433: 1, H0056: 1, H0623: 1, T0069: 1, H0560: 1, H0561: 1, S0448: 1, S0440: 1, H0509: 1, H0131: 1, S0150: 1, S0144: 1, S0344: 1, S0208: 1, S0210: 1, S0426: 1, H0529: 1, L0384: 1, S0216: 1, S0148: 1, H0593: 1, H0435: 1, H0658: 1, H0666: 1, H0518: 1, S0004: 1, H0134: 1, H0436: 1, S0432: 1, S0390: 1, S3014: 1, L0754: 1, L0746: 1, L0758: 1, L0596: 1, L0605: 1, L0592: 1, L0581: 1, L0593: 1, L0595: 1, S0011: 1, H0668: 1, S0026: 1, S0446: 1 and H0293: 1.				150-183, 75-103, 28-53, 111-128
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					H0428: 6, H0553: 6, H0038: 6, S0027: 6, S0040: 5, T0039: 5, H0050: 5, L0471: 5, H0644: 5, H0135: 5, H0551: 5, T0067: 5, H0144: 5, H0539: 5, S0028: 5, L0740: 5, H0171: 4, S0356: 4, S0046: 4, H0586: 4, H0486: 4, H0599: 4, H0046: 4, H0024: 4, H0266: 4, S0003: 4, H0040: 4, H0059: 4, H0519: 4, S0152: 4, L0603: 4, H0556: 3, S0222: 3, H0574: 3, H0156: 3, S0010: 3, H0581: 3, H0620: 3, H0014: 3, H0015: 3, H0373: 3, S0022: 3, H0031: 3, H0547: 3, H0522: 3, L0748: 3, H0624: 2, H0265: 2, H0295: 2, S0212: 2, H0484: 2, H0661: 2, H0125: 2, S0418: 2, H0208: 2, S0045: 2, H0619: 2, H0645: 2, H0550: 2, H0431: 2, H0370: 2, H0427: 2, H0575: 2, H0618: 2, S0049: 2, H0530: 2, H0545: 2, H0012: 2, T0010: 2, H0375: 2, H0179: 2, H0286: 2, H0615: 2, H0039: 2, H0622: 2,
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				H0032: 2, H0068: 2, H0090: 2, H0616: 2, H0264: 2, H0268: 2, H0100: 2, T0042: 2, S0294: 2, S0142: 2, H0517: 2, L0809: 2, H0651: 2, S0037: 2, H0506: 2, H0157: 1, H0294: 1, L0785: 1, H0671: 1, H0662: 1, S0420: 1, S0358: 1, S0376: 1, S0360: 1, H0580: 1, H0393: 1, H0411: 1, H0437: 1, H0369: 1, H0549: 1, H0409: 1, H0602: 1, H0587: 1, H0642: 1, L0477: 1, T0040: 1, H0635: 1, H0097: 1, H0036: 1, S0346: 1, H0421: 1, H0230: 1, H0196: 1, H0251: 1, T0115: 1, H0086: 1, H0009: 1, H0081: 1, H0197: 1, H0023: 1, H0023: 1, H0107: 1, H0271: 1, S0318: 1, S0334: 1, S0316: 1, H0284: 1, S0314: 1, S0250: 1, S0214: 1, H0328: 1, H0688: 1, L0483: 1, H0212: 1, H0708: 1, S0036: 1, H0634: 1, H0488: 1, H0433: 1, H0056: 1, H0623: 1, T0069: 1, H0560: 1, H0561: 1, S0448: 1,								
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735	HSBBS15	869055	745	1523 - 825	2150	Val-25 to Leu-35, Gly-138 to Gly-144.	S0440: 1, H0509: 1, H0131: 1, S0150: 1, S0144: 1, S0344: 1, S0208: 1, S0210: 1, S0426: 1, H0529: 1, L0775: 1, L0384: 1, L0664: 1, S0216: 1, S0148: 1, H0593: 1, H0435: 1, H0658: 1, H0666: 1, H0518: 1, S0004: 1, H0134: 1, H0436: 1, S0432: 1, S0390: 1, S3014: 1, L0754: 1, L0746: 1, L0758: 1, L0596: 1, L0605: 1, L0592: 1, L0581: 1, L0593: 1, L0595: 1, S0011: 1, H0668: 1, S0026: 1, S0446: 1 and H0293: 1.				158-175, 91-113, 109-125, 54-70
736	HS2IL80	869056	746	127 - 519	2151	Gly-31 to Ser-38.	AR055: 9, AR060: 6, AR033: 5, AR104: 4, AR061: 2, AR039: 2, AR096: 0, AR089: 0, AR053: 0, AR052: 0 S0388: 2, S0418: 1, S0442: 1, T0040: 1, S0280: 1, H0618: 1, H0253: 1, H0545: 1, S0440: 1, H0641: 1, H0519: 1, S0027: 1, L0759: 1 and H0445: 1.	11			51-68
							AR033: 27, AR089: 16, AR096: 12, AR039: 11,	11			

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737	HUSZB06	869057	747	47 - 904	2152	Arg-21 to Ala-28, Pro-33 to Ala-40, Pro-42 to Gly-50, Val-163 to Leu-173, Gly-246 to Asn-253.	H0506: 1. AR060: 12, AR061: 7, AR089: 7, AR039: 5, AR104: 3, AR033: 3, AR096: 2, AR055: 1, AR053: 0, AR052: 0 L0659: 10, L0665: 9, T0040: 8, L0519: 8, L0759: 8, L0776: 7, L0749: 7, S0418: 6, L0744: 6, L0747: 6, L0758: 6, S0046: 5, H0052: 5, H0457: 5, H0150: 5, L0769: 5, L0766: 5, L0748: 5, H0265: 4, S0420: 4, S0356: 4, S0360: 4, S0010: 4, H0545: 4, H0494: 4, L0662: 4, L0768: 4, L0774: 4, L0775: 4, S0406: 4, L0751: 4, L0754: 4, L0779: 4, H0295: 3, H0484: 3, S0476: 3, H0549: 3, S0222: 3, H0575: 3, H0581: 3, H0421: 3, H0620: 3, S0051: 3, H0687: 3, H0428: 3, L0764: 3, L0666: 3, H0435: 3, H0648: 3, H0539: 3, H0436: 3, L0750: 3, H0624: 2, H0171: 2, H0556: 2, H0657: 2, H0656: 2, S0354: 2, S0358: 2, S0376:	11			65-81, 192-208, 229-245
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			2, S0408: 2, S0007: 2, S0132: 2, T0039: 2, H0635: 2, H0156: 2, H0599: 2, H0618: 2, T0048: 2, H0544: 2, H0009: 2, S6028: 2, T0006: 2, H0604: 2, H0031: 2, H0038: 2, H0087: 2, H0551: 2, T0067: 2, S0440: 2, H0647: 2, S0344: 2, L0638: 2, L0372: 2, L0641: 2, L0806: 2, L0653: 2, L0527: 2, L0809: 2, L0565: 2, L0438: 2, H0689: 2, H0658: 2, H0672: 2, S0330: 2, S0027: 2, L0741: 2, L0742: 2, L0596: 2, L0605: 2, S0194: 2, H0543: 2, L0718: 2, H0506: 2, H0685: 1, H0713: 1, H0294: 1, T0049: 1, S0212: 1, S0110: 1, S0282: 1, H0483: 1, H0638: 1, S0442: 1, H0637: 1, S0468: 1, H0550: 1, H0642: 1, H0559: 1, L0622: 1, H0486: 1, H0013: 1, H0250: 1, H0069: 1, S0280: 1, H0706: 1, H0253: 1, S0346: 1, H0705: 1, H0318: 1, S0049: 1, L0040: 1, H0597: 1, L0738: 1, H0050:								
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				1, L0471: 1, H0012: 1, H0024: 1, H0014: 1, H0373: 1, S0388: 1, H0239: 1, H0594: 1, H0271: 1, H0292: 1, H0213: 1, H0628: 1, H0673: 1, H0068: 1, S0036: 1, H0135: 1, H0090: 1, H0634: 1, H0488: 1, H0268: 1, H0412: 1, H0413: 1, S0038: 1, T0042: 1, H0560: 1, H0641: 1, S0210: 1, S0002: 1, H0529: 1, L0770: 1, L0637: 1, L5566: 1, L0761: 1, L0772: 1, L0646: 1, L0374: 1, L0771: 1, L4500: 1, L0375: 1, L0651: 1, L0784: 1, L0807: 1, L0657: 1, L0658: 1, L0656: 1, L0782: 1, L0783: 1, L0530: 1, L0647: 1, L0788: 1, L0663: 1, L0664: 1, S0216: 1, H0144: 1, H0693: 1, H0520: 1, H0547: 1, H0519: 1, S0126: 1, H0659: 1, S0328: 1, S0380: 1, H0710: 1, H0522: 1, H0627: 1, S3014: 1, S0028: 1, L0439: 1, L0740: 1, L0756: 1, L0786: 1, L0780: 1, L0755: 1, S0434: 1, S0436:								
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738	HUCNM83	869060	748	257 - 610	2153	Thr-29 to Thr-69.	1, L0581: 1, L0595: 1, L0601: 1, H0667: 1, S0192: 1, H0542: 1 and S0424: 1. AR039: 86, AR052: 69, AR096: 65, AR053: 61, AR089: 55, AR060: 38, AR104: 36, AR033: 35, AR055: 18, AR061: 11 H0486: 3, H0641: 3, L0766: 3, L0748: 3, L0731: 3, L0757: 3, T0040: 2, L0770: 2, L0794: 2, L0805: 2, H0519: 2, H0521: 2, H0638: 1, S0420: 1, L0021: 1, H0581: 1, L0471: 1, H0090: 1, H0412: 1, L0761: 1, L0764: 1, L0767: 1, L0803: 1, L0806: 1, L0776: 1, H0659: 1, H0522: 1, L0747: 1, L0779: 1, L0777: 1, L0780: 1, L0759: 1 and H0543: 1.			96-114, 10-26, 76- 92	
739	HUCNW47	869091	749	88 - 474	2154	Met-1 to Phe-8.	AR039: 7, AR096: 5, AR053: 5, AR089: 5, AR052: 5, AR033: 5, AR104: 4, AR055: 4, AR060: 3, AR061: 2 L0754: 6, S0420: 5, L0758: 5, H0617: 3, H0521: 1.			104-124, 42-60, 70- 88	

740	HEMGJ42	869128	750	213 - 662	2155	Trp-8 to Ser-16.	3, L0741: 3, L0742: 3, L0743: 3, L0744: 3, H0242: 2, L0662: 2, L0775: 2, S0126: 2, L0748: 2, L0740: 2, L0751: 2, L0592: 2, S0040: 1, H0294: 1, H0657: 1, S0212: 1, H0662: 1, S0418: 1, S0132: 1, H0442: 1, H0497: 1, H0052: 1, H0545: 1, H0041: 1, H0292: 1, T0023: 1, H0124: 1, S0036: 1, H0412: 1, H0413: 1, H0059: 1, L0770: 1, L5575: 1, L0650: 1, L0651: 1, L0554: 1, L0805: 1, L0776: 1, L0661: 1, L0809: 1, L0792: 1, L0664: 1, L0665: 1, H0520: 1, H0690: 1, H0682: 1, H0672: 1, H0651: 1, H0436: 1, L0611: 1, L0439: 1, L0747: 1, L0750: 1, L0756: 1, L0755: 1, S0436: 1, L0581: 1, S0196: 1, H0506: 1 and H0352: 1. AR039: 19, AR055: 19, AR033: 15, AR104: 14, AR053: 14, AR089: 12, AR052: 9, AR096: 9, AR060: 8, AR061: 8					85-101
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741	HUSYN11	869192	751	505 - 1443	2156	Met-1 to Glu-6, Gly-15 to Ser-28, Arg-33 to Glu-49, Asn-56 to Tyr-65, Leu-105 to Phe-120, Leu-130 to Ser-142.	S0046: 2, S0360: 1, H0123: 1, H0059: 1, L0662: 1, H0658: 1 and L0589: 1.				67-99	
742	HTADJ34	869206	752	141 - 620	2157	Ser-5 to Ser-10, Ala-19 to Leu-24, Val-31 to Leu-37, Arg-76 to Lys-81, Leu-84 to Glu-92.	AR052: 53, AR033: 23, AR053: 15, AR096: 7, AR089: 6, AR060: 6, AR061: 4, AR055: 4, AR104: 2, AR039: 1 H0292: 2, H0059: 2, H0149: 1, H0294: 1, S0282: 1, H0484: 1, H0483: 1, H0661: 1, S0418: 1, H0619: 1, H0550: 1, H0069: 1, H0051: 1, T0010: 1, H0266: 1, S0364: 1, H0063: 1, H0560: 1, H0646: 1, H0538: 1, H0520: 1, H0547: 1, H0593: 1, S0126: 1, S0380: 1, S0390: 1, S3014: 1, L0750: 1 and H0543: 1.	2p12	147200, 178640, 216900		54-76	
743	HTXPR30	869227	753	196 - 879	2158		AR055: 10, AR052: 7, AR060: 5, AR061: 5, AR053: 4, AR089: 4,				102-128, 72-94, 160-183,	

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744	HAHDP69	869268	754	6 - 2453	2159				1, H0441: 1, H0431: 1, H0257: 1, H0559: 1, T0039: 1, H0635: 1, H0427: 1, S0280: 1, L0022: 1, H0036: 1, S0010: 1, S0182: 1, H0581: 1, H0596: 1, H0544: 1, H0150: 1, H0123: 1, H0350: 1, S0388: 1, S0051: 1, H0271: 1, H0288: 1, H0674: 1, L0456: 1, H0316: 1, H0040: 1, T0041: 1, S0438: 1, H0509: 1, S0208: 1, S0002: 1, L0763: 1, L0637: 1, L0767: 1, L0803: 1, L0774: 1, L0775: 1, L0376: 1, L0806: 1, L0790: 1, L0792: 1, L0666: 1, L0663: 1, H0690: 1, H0435: 1, H0659: 1, H0670: 1, S0328: 1, H0522: 1, H0134: 1, H0555: 1, S0028: 1, L0740: 1, L0754: 1, L0749: 1, L0779: 1, L0759: 1, L0591: 1, L0366: 1, S0194: 1, H0542: 1, H0543: 1, H0423: 1, H0506: 1 and H0352: 1.					185-206, 48-66, 374-390,
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AR061: 3, AR060: 3, AR104: 2, AR039: 0 H0556: 12, H0251: 4, S0420: 3, H0013: 3, H0083: 3, H0266: 3, H0264: 3, H0561: 3, L0439: 3, S0046: 2, S0132: 2, H0124: 2, H0135: 2, H0560: 2, S0216: 2, H0547: 2, L0748: 2, H0624: 1, H0265: 1, S0040: 1, S0134: 1, S0430: 1, H0583: 1, H0341: 1, S0212: 1, H0484: 1, S0418: 1, S0356: 1, S0045: 1, H0619: 1, H0351: 1, H0587: 1, H0599: 1, H0590: 1, H0581: 1, H0052: 1, H0046: 1, H0041: 1, S0250: 1, L0456: 1, H0040: 1, S0038: 1, H0100: 1, T0041: 1, T0042: 1, H0494: 1, S0370: 1, H0130: 1, H0529: 1, L0772: 1, L0373: 1, L0764: 1, L0774: 1, L0790: 1, L0665: 1, S0053: 1, H0519: 1, H0435: 1, H0660: 1, L0602: 1, S0152: 1, H0522: 1, S0044: 1, H0555: 1, H0436: 1, S0390: 1, S3014: 1, S0028: 1, L0743: 1, L0777:	663-679, 111-127, 319-335, 469-485
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									1, L0759: 1, S0260: 1, H0445: 1, L0596: 1, L0592: 1, L0485: 1, L0593: 1, L0601: 1, S0011: 1, H0543: 1 and H0423: 1.					
745	HTXBF16	869270	755	119 - 586	2160	Arg-17 to Val-23.			AR033: 9, AR089: 3, AR052: 2, AR060: 2, AR055: 2, AR096: 1, AR053: 1, AR061: 1, AR104: 0 H0556: 6, H0424: 3, H0265: 1, H0306: 1, H0402: 1, L0794: 1 and L0366: 1.				29-46, 115-134, 78-94, 51- 67	
746	HTXLG13	869344	756	523 - 1020	2161				AR033: 58, AR052: 43, AR053: 34, AR055: 34, AR089: 24, AR061: 18, AR060: 16, AR096: 12, AR104: 8, AR039: 3				51-67, 71- 87	
747	HEOMD27	869349	757	722 - 1102	2162	Arg-13 to Glu-22, Ser-34 to Phe-44, Ser-46 to Thr-52.			AR052: 9, AR039: 8, AR053: 8, AR096: 6, AR033: 6, AR089: 5, AR055: 4, AR104: 4, AR060: 3, AR061: 2 H0457: 6, H0486: 5, L0439: 5, L0794: 4, L0803: 4, L0742: 4, L0754: 4, L0777: 3, L0599: 3, H0156: 2, H0599: 2, H0014: 2,				72-89, 52- 68	



748	HTXHA69	869387	758	46 - 408	2163	Asp-35 to Gly-40, Arg-64 to Val-69.	L0771: 2, L0809: 2, H0478: 2, L0743: 2, L0748: 2, L0749: 2, L0757: 2, L0758: 2, L0595: 2, H0556: 1, H0656: 1, S0418: 1, S0444: 1, L0717: 1, S0222: 1, H0632: 1, T0040: 1, H0052: 1, H0544: 1, L0041: 1, H0373: 1, H0039: 1, H0424: 1, H0405: 1, H0031: 1, H0644: 1, L0055: 1, H0038: 1, H0634: 1, H0551: 1, H0509: 1, S0422: 1, L0761: 1, L0372: 1, L0768: 1, L0766: 1, L0388: 1, L0774: 1, L0775: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0659: 1, L0526: 1, L0788: 1, L0789: 1, L0666: 1, H0547: 1, H0519: 1, H0672: 1, S0152: 1, L0731: 1, S0031: 1, H0445: 1, L0591: 1, S0242: 1, S0194: 1, S0196: 1 and H0352: 1. AR104: 20, AR033: 18, AR055: 15, AR052: 11, AR060: 9, AR053: 8, AR039: 8, AR096: 8, AR089: 7, AR061: 6 L0142: 2, L0770: 2,					43-60
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749	HFTCV95	869639	759	1877 - 759	2164	Arg-11 to Arg-18.	L0438: 2, L0439: 2, L0752: 2, H0265: 1, S0222: 1, H0013: 1, H0572: 1, H0083: 1, L0455: 1, L0763: 1, L0767: 1, L0748: 1, L0755: 1 and L0592: 1. AR052: 19, AR053: 18, AR089: 16, AR096: 13, AR055: 13, AR060: 12, AR033: 12, AR104: 8, AR039: 7, AR061: 7 H0253: 2, H0520: 2, S0126: 2, L0759: 2, H0556: 1, H0657: 1, S0116: 1, H0450: 1, S0046: 1, H0492: 1, S0049: 1, H0123: 1, H0050: 1, S0036: 1, H0494: 1, H0435: 1, H0670: 1, H0539: 1 and L0731: 1.				198-214, 285-301	
750	HTEHC92	869786	760	52 - 456	2165	Met-1 to Lys-8, Arg-20 to Leu-29, Lys-55 to Leu-63, Ser-77 to Gly-83, Pro-126 to Phe-135.	AR055: 7, AR060: 4, AR039: 4, AR052: 4, AR033: 4, AR089: 4, AR104: 4, AR061: 3, AR053: 3, AR096: 2 H0253: 4, H0038: 4, L0794: 4, L0748: 4, L0754: 4, H0677: 4, H0618: 3, H0616: 3, L0806: 3, L0758: 3, H0013: 2, S0150: 2,				100-118, 62-78	

751	HTFOL05	869816	761	2003 - 1422	2166	Glu-7 to Phe-12, Pro-49 to Phe-56, Gly-65 to Val-71.	L0665: 2, L0439: 2, H0661: 1, S0418: 1, S0410: 1, S0007: 1, S6026: 1, S0300: 1, L0717: 1, H0050: 1, H0266: 1, H0622: 1, L0769: 1, L0637: 1, L0372: 1, L0805: 1, L0776: 1, L0790: 1, S0328: 1, S0206: 1, L0589: 1, H0665: 1 and H0422: 1.					166-191
							AR039: 1, AR104: 1, AR096: 0, AR061: 0, AR053: 0, AR055: 0, AR089: 0, AR060: 0, AR033: 0 L0591: 10, H0622: 5, S0422: 3, L0803: 3, L0438: 3, L0750: 3, S0134: 2, H0663: 2, H0599: 2, H0050: 2, H0687: 2, L0764: 2, L0662: 2, L0766: 2, L0748: 2, L0779: 2, L0777: 2, L0599: 2, S0196: 2, H0265: 1, H0556: 1, H0662: 1, L0481: 1, S0356: 1, H0580: 1, S0046: 1, S0300: 1, S0222: 1, H0431: 1, H0574: 1, S0474: 1, H0052: 1, H0309: 1, H0083: 1, H0428: 1, H0031: 1, H0644: 1,					

752	HTPDV70	869874	762	67 - 501	2167	His-2 to Gln-16, Gly-23 to Ser-28, Met-40 to Asn-45, Gln-76 to Leu-91.	H0628: 1, L0055: 1, H0038: 1, H0616: 1, H0560: 1, H0529: 1, L0372: 1, L0768: 1, L0794: 1, L0519: 1, L0666: 1, L0665: 1, S0216: 1, H0144: 1, S0330: 1, H0518: 1, S0332: 1, S0146: 1, H0555: 1, S0027: 1, L0439: 1, L0754: 1, L0756: 1, L0731: 1, L0595: 1, S0194: 1, H0543: 1, H0423: 1 and S0424: 1.					58-74, 114-130
753	HLYGH73	869917	763	808 - 2	2168	Pro-18 to Leu-46.	AR053: 16, AR096: 14, AR052: 14, AR055: 12, AR089: 9, AR060: 8, AR033: 6, AR061: 6, AR104: 4, AR039: 4 H0591: 2, H0521: 2, S0046: 1, S0010: 1, H0039: 1, H0641: 1, H0519: 1 and H0543: 1. AR033: 6, AR089: 4, AR060: 4, AR061: 3, AR039: 3, AR053: 3, AR096: 2, AR052: 2, AR055: 2, AR104: 1 H0677: 8, L0617: 4, H0650: 3, H0457: 3, T0041: 3, H0657: 2, H0486: 2,					237-257, 130-146, 71-87, 48- 64

754	HCE3E13	869962	764	299 - 688	2169				H0581: 2, H0264: 2, H0652: 2, S0144: 2, S0002: 2, H0529: 2, L0662: 2, S0436: 2, H0713: 1, S0114: 1, H0254: 1, S0354: 1, S0360: 1, H0580: 1, H0485: 1, H0046: 1, H0594: 1, S6028: 1, H0271: 1, H0416: 1, H0388: 1, H0591: 1, S0440: 1, S0344: 1, S0426: 1, L0761: 1, L0766: 1, L0804: 1, L0655: 1, L0666: 1, L0664: 1, H0698: 1, H0435: 1, S0328: 1, H0539: 1, H0445: 1, S0434: 1, H0542: 1 and H0423: 1.				101-117
755	HRAAH37	869969	765	40 - 489	2170	Met-1 to Asn-8, Ala-16 to Glu-45, Ser-57 to Val-62, Pro-101 to Cys-113.			AR052: 18, AR053: 18, AR055: 14, AR096: 14, AR089: 11, AR104: 9, AR060: 9, AR033: 8, AR039: 7, AR061: 7, H0318: 1, H0052: 1, H0264: 1, S0386: 1 and H0521: 1.				76-93, 126-142

756	HTOFB26	869981	766	77 - 649	2171	Ala-7 to Lys-12, Gln-49 to Asn-56.	H0650: 1, H0318: 1, H0264: 1, H0555: 1 and H0677: 1. AR096: 7, AR060: 6, AR055: 5, AR089: 5, AR039: 5, AR033: 5, AR053: 4, AR052: 4, AR104: 3, AR061: 3 H0264: 1 and L0584: 1.				167-183, 141-157, 13-29
757	HMELR15	870005	767	262 - 2034	2172	Ser-14 to Arg-19, His-76 to Ser-82, Arg-229 to Leu-235, Asp-283 to Gly-289, Leu-301 to Ser-306, Ala-423 to Gln-429, Gly-444 to Thr-459, Ala-490 to Asp-499, Glu-502 to Gly-514, Ser-527 to Tyr-533, Glu-535 to Leu-545, Leu-578 to Arg-584.	AR055: 6, AR052: 4, AR053: 4, AR060: 4, AR033: 3, AR061: 3, AR089: 3, AR104: 3, AR039: 2, AR096: 2 H0046: 16, L0731: 5, L0758: 5, H0013: 4, S0436: 4, L0596: 4, L0766: 3, H0519: 3, H0521: 3, L0759: 3, H0543: 3, S0116: 2, S0222: 2, S0010: 2, H0266: 2, H0616: 2, H0412: 2, H0623: 2, L0655: 2, L0783: 2, H0547: 2, L0743: 2, L0747: 2, L0591: 2, L0362: 2, T0002: 1, S0114: 1, S0218: 1, H0341: 1, S0212: 1, H0663: 1, L0481: 1, S0354: 1, S0410: 1, H0722: 1, S0046: 1, S0132: 1,				211-227, 126-142, 347-363, 462-478, 29-45, 105-121, 237-253, 307-323, 147-163

758	HTDAF92	870067	768	256 - 1011	2173	Leu-23 to Val-28, Gly-94 to Asn-105, Asp-132 to Arg-140, Ser-154 to Asn-164,	S0476: 1, H0393: 1, L0717: 1, H0369: 1, H0392: 1, H0587: 1, T0039: 1, T0040: 1, H0156: 1, H0318: 1, H0230: 1, H0544: 1, H0545: 1, L0041: 1, H0014: 1, H0267: 1, H0252: 1, H0688: 1, H0644: 1, H0606: 1, H0135: 1, H0591: 1, H0038: 1, H0087: 1, H0488: 1, H0413: 1, S0038: 1, T0041: 1, H0561: 1, S0440: 1, H0695: 1, L0369: 1, L0763: 1, L0638: 1, L0764: 1, L0662: 1, L0651: 1, L0806: 1, L0657: 1, L0518: 1, L0809: 1, H0144: 1, H0520: 1, S0126: 1, H0435: 1, H0660: 1, S0013: 1, H0627: 1, S3012: 1, S0027: 1, L0741: 1, L0744: 1, L0748: 1, L0786: 1, L0779: 1, S0031: 1, S0260: 1, L0599: 1, L0608: 1, L0595: 1, S0011: 1, S0242: 1, H0423: 1 and H0422: 1.					178-194
						AR060: 3, AR089: 2, AR033: 2, AR039: 2, AR053: 1, AR055: 1, AR061: 1, AR104: 1,						

759	HTLIV78	870098	769	109 - 603	2174	Pro-9 to Asp-14, Arg-101 to Gln-113.	His-196 to Pro-203, Arg-227 to Ala-232.	AR052: 1, AR096: 1 L0439: 3, S0222: 2, H0543: 2, S0360: 1, H0622: 1, H0063: 1, H0477: 1, T0042: 1, L0369: 1, L0771: 1, L0662: 1, L0659: 1, L0809: 1 and L0786: 1.				67-86, 131-149, 49-66	
760	HTLEI29	870142	770	106 - 1287	2175	Thr-92 to Phe-104, Pro-121 to Lys-127, Arg-178 to Gly-184, Ser-219 to Asp-224, Pro-237 to His-242, Ser-348 to Gly-353.		AR055: 17, AR039: 11, AR033: 10, AR053: 10, AR061: 8, AR089: 8, AR052: 7, AR060: 7, AR096: 6, AR104: 5 H0253: 15, H0618: 12, L0758: 11, L0779: 10, H0150: 1, L0768: 1 and L0790: 1.				269-288, 364-380	
761	HTLGX79	870181	771	121 - 543	2176	Arg-3 to Ser-9, Gly-15 to Arg-40.		AR055: 7, AR033: 5, AR039: 5, AR096: 5, AR052: 5, AR053: 5, AR104: 4, AR060: 4, AR061: 4, AR089: 3				57-74	



762	HHFOV07	870237	772	28 - 975	2177	Pro-116 to Ser-127, Glu-130 to Leu-135.	L0803: 15, L0794: 8, L0731: 7, L0758: 7, H0253: 6, H0618: 4, L0804: 4, L0809: 4, L0439: 4, L0754: 4, S0442: 3, L0752: 3, H0556: 2, S0045: 2, T0010: 2, H0622: 2, H0553: 2, H0135: 2, L0770: 2, L0662: 2, L0775: 2, H0144: 2, L0741: 2, L0747: 2, H0171: 1, H0713: 1, S0218: 1, H0661: 1, S0046: 1, H0550: 1, S0222: 1, H0586: 1, H0333: 1, H0486: 1, S0010: 1, H0421: 1, H0194: 1, H0564: 1, H0687: 1, H0039: 1, H0616: 1, S0038: 1, H0100: 1, H0633: 1, L0763: 1, L0800: 1, L0642: 1, L0764: 1, L0768: 1, L0776: 1, L0656: 1, L0659: 1, L0382: 1, L0666: 1, H0593: 1, L0740: 1, L0755: 1, L0757: 1, S0434: 1, S0436: 1 and H0665: 1.				162-178, 95-111, 16-32
						AR055: 6, AR060: 5, AR052: 4, AR053: 3, AR089: 2, AR033: 2, AR061: 2, AR096: 1, AR104: 1 AR039: 0					

763	HTLDO59	870276	773	40 - 459	2178	Pro-10 to Gly-17, Gly-25 to Thr-37, Asp-39 to Gly-44, Arg-66 to His-71.	H0645: 1 and H0253: 1, AR039: 64, AR053: 43, AR052: 34, AR104: 30, AR033: 29, AR089: 29, AR096: 29, AR055: 28, AR060: 19, AR061: 16 H0618: 5, L0758: 5, S0049: 4, H0253: 3, H0052: 3, H0617: 3, H0494: 3, H0144: 3, L0747: 3, H0341: 2, H0550: 2, H0424: 2, L0794: 2, L0766: 2, L0439: 2, L0751: 2, L0745: 2, L0752: 2, S0436: 2, S0452: 2, H0556: 1, S0114: 1, H0483: 1, S0358: 1, S0360: 1, H0580: 1, S0132: 1, H0261: 1, H0559: 1, H0486: 1, S0280: 1, H0575: 1, L0024: 1, H0546: 1, H0150: 1, H0620: 1, H0024: 1, T0010: 1, S6028: 1, H0179: 1, H0417: 1, H0038: 1, T0067: 1, H0059: 1, T0042: 1, S0144: 1, L0637: 1, L0761: 1, L0768: 1, L0807: 1, L0788: 1, L0791: 1, H0520: 1, H0593: 1, H0684: 1, S0380: 1, H0696: 1, H0555: 1, H0436: 1, L0748:				78-98
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764	HE8TM62	870447	774	8 - 346	2179			1, L0740: 1, L0754: 1, L0779: 1, L0755: 1, L0581: 1, L0698: 1 and S0424: 1.				63-85, 26-44
765	HJBCS70	870457	775	734 - 186	2180	Met-1 to Cys-7, Gly-21 to Val-28, Lys-46 to Ala-56.		AR061: 4, AR055: 4, AR033: 3, AR052: 3, AR060: 3, AR053: 3, AR096: 3, AR089: 2, AR104: 1, AR039: 0 H0013: 1, H0014: 1, H0087: 1, L0742: 1, L0750: 1 and S0424: 1.				121-143
766	HTFMP59	870490	776	93 - 641	2181			AR104: 124, AR061: 112, AR096: 76, AR055: 74, AR053: 64, AR033: 59, AR089: 59, AR060: 57, AR052: 52, AR039: 36 L0731: 3, H0086: 2, H0717: 1, S0212: 1, H0255: 1, S0045: 1, H0493: 1, H0559: 1, H0052: 1, H0620: 1, S6028: 1, T0042: 1, H0478: 1, L0749: 1, L0758: 1 and S0436: 1.				145-164, 91-108, 126-142

767	HTEOY86	870519	777	366 - 722	2182	His-73 to His-78.	T0003: 1, H0418: 1, L0055: 1, L0378: 1, L0519: 1, L0744: 1, L0751: 1, L0749: 1, L0756: 1, L0752: 1, L0731: 1, L0758: 1, L0587: 1, L0601: 1 and S0424: 1.				33-49, 79- 95, 51-67
768	HTEKC55	870560	778	175 - 1164	2183	Ser-4 to Ser-14, Pro-73 to Gly-85, Lys-107 to Gly-115, Gly-201 to Trp-210, Lys-247 to Cys-258, Pro-260 to Cys-265, Thr-281 to Pro-290, Glu-303 to Phe-309.	AR055: 11, AR052: 9, AR053: 8, AR060: 7, AR033: 6, AR061: 5, AR089: 5, AR096: 4, AR039: 3, AR104: 2 H0616: 5, H0619: 1, H0618: 1, H0038: 1, L0806: 1, L0666: 1, L0664: 1 and L0750: 1.				140-159, 167-186, 214-230
769	HTEPK69	870574	779	281 - 2092	2184	Met-1 to Ala-11, Pro-21 to Gln-31, Thr-39 to Glu-55, Leu-59 to Pro-64, Pro-73 to Leu-88, Glu-106 to Glu-116,	AR055: 7, AR060: 6, AR052: 5, AR089: 5, AR033: 4, AR053: 4, AR061: 4, AR096: 4, AR039: 3, AR104: 2 L0794: 6, L0803: 5,				585-601, 357-373, 254-270, 337-353

Pro-149 to Ile-154, Arg-171 to Ile-177, Phe-191 to Pro-201, Arg-291 to Pro-296, His-313 to Asp-318, Pro-441 to Asn-462, Glu-512 to Asp-537, Thr-554 to Glu-568.	L0752: 5, L0758: 5, L0766: 4, H0038: 3, H0616: 3, S0002: 3, L0774: 3, S0126: 3, L0600: 3, H0657: 2, S0418: 2, H0442: 2, H0581: 2, L0483: 2, H0031: 2, H0553: 2, S0344: 2, L0761: 2, L0804: 2, L0655: 2, L0663: 2, L0438: 2, H0682: 2, L0602: 2, L0748: 2, L0439: 2, L0754: 2, L0749: 2, L0777: 2, L0587: 2, S0026: 2, H0265: 1, S0040: 1, T0049: 1, H0583: 1, H0662: 1, S0420: 1, S0358: 1, S0045: 1, H0550: 1, H0431: 1, H0453: 1, H0370: 1, H0497: 1, H0574: 1, H0485: 1, T0060: 1, H0013: 1, T0082: 1, H0253: 1, S0346: 1, H0318: 1, H0196: 1, H0052: 1, L0118: 1, H0012: 1, H0017: 1, T0006: 1, H0644: 1, H0400: 1, H0591: 1, H0063: 1, T0067: 1, H0264: 1, H0488: 1, H0623: 1, H0494: 1, S0016: 1, H0561: 1, S0142: 1, L0638: 1, L0643: 1, L0662: 1, L0499: 1, L0651: 1
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									L0378: 1, L0806: 1, L0607: 1, L0659: 1, L0783: 1, L0664: 1, H0547: 1, S3012: 1, L0747: 1, H0445: 1, L0592: 1, L0604: 1, L0595: 1, L0601: 1, H0543: 1, H0423: 1 and H0422: 1.				
770	HTENV57	870594	780	105 - 497	2185	Ser-2 to Arg-8, Arg-16 to Ser-22, Glu-33 to Asn-40, Lys-70 to Gln-80, Tyr-88 to Lys-94, Lys-110 to Gln-122.			AR055: 10, AR061: 5, AR053: 5, AR060: 5, AR089: 4, AR033: 4, AR052: 4, AR096: 3, AR039: 3, AR104: 2 H0616: 5 and H0038: 1.			44-64	
771	HTEJF45	870668	781	135 - 500	2186	Ser-6 to Pro-13, His-15 to Thr-21, Ser-55 to Pro-66, Asn-94 to Ser-101.			AR039: 45, AR053: 33, AR052: 30, AR055: 27, AR096: 25, AR033: 23, AR089: 22, AR060: 21, AR104: 17, AR061: 14 H0618: 2, H0038: 2, L0807: 2, L0768: 1, L0794: 1 and L0758: 1.			101-117	
772	HTEGF16	870701	782	299 - 817	2187	Gln-39 to Asp-51, Gln-102 to Leu-107, Pro-118 to Arg-131.			AR039: 39, AR052: 26, AR033: 25, AR053: 22, AR055: 22, AR096: 19, AR104: 19, AR060: 18, AR089: 18, AR061: 13 L0803: 8, H0318: 4, L0800: 4, L0764: 4, L0766: 4, L0372: 3, L0809: 3,			51-82, 150-166	

773	HLTGU35	870713	783	200 - 520	2188	Met-1 to Tyr-11, Lys-13 to Phe-18, Cys-22 to Gly-27.	L0750: 3, L0777: 3, H0575: 2, S0010: 2, H0038: 2, L0662: 2, L0794: 2, L0774: 2, L0805: 2, L0659: 2, S0328: 2, L0758: 2, L0591: 2, H0650: 1, H0484: 1, H0369: 1, H0438: 1, H0618: 1, H0390: 1, H0266: 1, H0644: 1, L0770: 1, L0769: 1, L0772: 1, L0643: 1, L0773: 1, L0648: 1, L0375: 1, L0806: 1, L0789: 1, L0663: 1, L0664: 1, L0438: 1, S0126: 1, S0330: 1, H0696: 1, L0748: 1, L0439: 1, L0740: 1, L0754: 1, L0749: 1 and L0779: 1.	L0750: 3, L0777: 3, H0575: 2, S0010: 2, H0038: 2, L0662: 2, L0794: 2, L0774: 2, L0805: 2, L0659: 2, S0328: 2, L0758: 2, L0591: 2, H0650: 1, H0484: 1, H0369: 1, H0438: 1, H0618: 1, H0390: 1, H0266: 1, H0644: 1, L0770: 1, L0769: 1, L0772: 1, L0643: 1, L0773: 1, L0648: 1, L0375: 1, L0806: 1, L0789: 1, L0663: 1, L0664: 1, L0438: 1, S0126: 1, S0330: 1, H0696: 1, L0748: 1, L0439: 1, L0740: 1, L0754: 1, L0749: 1 and L0779: 1.				59-75, 29- 45, 82-98
						AR033: 2, AR096: 2, AR104: 2, AR055: 1, AR089: 1, AR061: 1, AR060: 1, AR052: 0, AR039: 0, AR053: 0 S0422: 2, L0439: 2, H0294: 1, S0134: 1, S0358: 1, S0360: 1, H0586: 1, H0570: 1, H0591: 1, S0142: 1, L0598: 1, L0763: 1, L0770: 1, S0374: 1 and L0589: 1.	AR033: 2, AR096: 2, AR104: 2, AR055: 1, AR089: 1, AR061: 1, AR060: 1, AR052: 0, AR039: 0, AR053: 0 S0422: 2, L0439: 2, H0294: 1, S0134: 1, S0358: 1, S0360: 1, H0586: 1, H0570: 1, H0591: 1, S0142: 1, L0598: 1, L0763: 1, L0770: 1, S0374: 1 and L0589: 1.					

774	HTEDK07	870714	784	21 - 515	2189	Thr-94 to Trp-103, Arg-121 to Trp-140.	AR055: 16, AR039: 14, AR033: 11, AR060: 9, AR104: 9, AR053: 8, AR052: 8, AR096: 7, AR089: 7, AR061: 6 L0754: 3, L0777: 3, L0439: 2, S0116: 1, H0341: 1, H0661: 1, H0038: 1, H0412: 1, L0761: 1, L0667: 1, L0764: 1, L0788: 1, H0435: 1, L0749: 1, L0779: 1 and L0758: 1.				57-75
775	HADGO63	870818	785	1996 - 1418	2190	Ser-33 to Arg-38, Glu-134 to Ser-140, Val-177 to Asn-182.	AR053: 4, AR096: 3, AR033: 3, AR104: 3, AR052: 3, AR039: 3, AR055: 3, AR089: 2, AR061: 1, AR060: 1 L0766: 8, L0438: 4, H0547: 4, L0756: 4, L0748: 3, L0777: 3, H0051: 2, L0754: 2, L0749: 2, L0759: 2, S0040: 1, S0342: 1, T0049: 1, H0638: 1, S0376: 1, S0045: 1, H0619: 1, L0717: 1, H0411: 1, S0220: 1, H0587: 1, H0574: 1, H0427: 1, H0599: 1, S0010: 1, S0346: 1, S0474: 1, H0544: 1, L0471: 1, H0039: 1, H0538: 1, L0770: 1,				70-89, 101-117, 6-22, 52- 68



									L0761: 1, L0771: 1, L0662: 1, L0375: 1, L0805: 1, L0793: 1, L0666: 1, S0053: 1, L0352: 1, S0126: 1, H0435: 1, H0658: 1, H0539: 1, S0152: 1, L0740: 1, L0750: 1, L0755: 1, S0031: 1, L0591: 1 and H0668: 1.				
776	HTAHY24	870826	786	452 - 760	2191	Met-1 to Thr-9, Pro-39 to Ala-48, Pro-51 to Ser-57, Thr-80 to Tyr-92.			AR055: 10, AR060: 6, AR033: 5, AR096: 4, AR061: 4, AR089: 4, AR053: 4, AR052: 4, AR039: 2, AR104: 2 H0635: 2, H0580: 1, H0634: 1, L0731: 1 and L0596: 1.				55-79
777	HDPDO84	870936	787	55 - 567	2192	Ser-35 to Thr-51, Gln-75 to Asp-81, Gly-123 to Asn-135.			AR033: 8, AR089: 6, AR039: 5, AR052: 4, AR053: 4, AR060: 4, AR055: 4, AR096: 3, AR061: 3, AR104: 2 L0755: 12, L0759: 6, L0745: 5, L0794: 4, S0418: 3, L0666: 3, H0520: 3, S0152: 3, L0748: 3, L0779: 3, S0212: 2, H0318: 2, H0031: 2, L0142: 2, H0538: 2, L0766: 2, L0659: 2, L0665: 2, H0519: 2, S0328:				145-171

778	HNTAN11	870937	788	298 - 858	2193		2, L0754: 2, L0747: 2, L0777: 2, L0600: 2, L0470: 1, S0116: 1, S0045: 1, H0587: 1, H0333: 1, H0486: 1, H0581: 1, H0597: 1, L0157: 1, S6028: 1, H0266: 1, S0250: 1, S0022: 1, S0214: 1, T0023: 1, H0383: 1, H0674: 1, H0090: 1, H0038: 1, H0413: 1, H0494: 1, S0438: 1, H0509: 1, L0638: 1, L0637: 1, L0646: 1, L0800: 1, L0363: 1, L0768: 1, L0804: 1, L0774: 1, L0382: 1, L0789: 1, L0792: 1, L0664: 1, H0144: 1, H0547: 1, S0126: 1, S0380: 1, H0518: 1, H0521: 1, S0013: 1, H0704: 1, H0478: 1, S0032: 1, L0749: 1, L0756: 1, L0752: 1, L0731: 1, L0584: 1, L0588: 1, H0542: 1, H0543: 1, S0462: 1 and : 1. AR033: 6, AR052: 6, AR096: 4, AR089: 4, AR053: 3, AR039: 3, AR060: 3, AR104: 2, AR055: 2, AR061: 1 L0755: 12, L0759: 6,					94-118, 119-139
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779	HTTBJ31	870946	789	463 - 783	2194	Pro-17 to Arg-25, Ser-48 to Arg-67.	S0462: 1 and : 1. AR060: 75, AR104: 74, AR061: 72, AR033: 68, AR039: 57, AR055: 53, AR089: 41, AR052: 27, AR096: 20, AR053: 19 L0774: 6, H0046: 5, H0012: 3, H0333: 2, L0769: 2, H0662: 1, H0550: 1, H0370: 1, H0036: 1, T0003: 1, H0040: 1, L0768: 1, L0803: 1, L0659: 1, L0792: 1, L0666: 1 and H0008: 1.				65-95
780	HAMGO24	870957	790	136 - 549	2195	Ser-12 to Leu-17, Lys-32 to Val-38.	AR052: 5, AR053: 4, AR096: 3, AR039: 3, AR089: 3, AR033: 2, AR060: 2, AR104: 2, AR061: 1, AR055: 1 L0766: 9, L0742: 6, L0803: 5, S0358: 3, H0521: 3, L0777: 3, L0758: 3, H0413: 2, S0466: 2, L0775: 2, L0666: 2, L0779: 2, L0752: 2, S0444: 1, S0360: 1, H0393: 1, H0587: 1, H0486: 1, H0013: 1, H0069: 1, H0575: 1, H0052: 1, H0545: 1, H0510: 1, H0687: 1, S0003: 1, H0553: 1,				51-67, 72- 88

781	HODFK55	870975	791	523 - 915	2196	Cys-12 to Tyr-23.	H0551: 1, H0560: 1, H0509: 1, H0646: 1, S0422: 1, L0598: 1, L0762: 1, L0641: 1, L0794: 1, L0804: 1, L0651: 1, L0659: 1, L0664: 1, H0519: 1, H0522: 1, L0755: 1, S0031: 1, H0653: 1, H0542: 1 and S0412: 1.	5p15.2	123000, 602568			97-113, 77-93
782	HBJMW49	871019	792	107 - 457	2197	Glu-34 to Lys-48.	AR096: 14, AR089: 11, AR055: 9, AR060: 9, AR033: 9, AR053: 7, AR052: 7, AR061: 5, AR104: 4, AR039: 4 H0580: 2, H0615: 2, H0619: 1, H0645: 1, H0549: 1, H0392: 1, H0581: 1, T0042: 1, L0766: 1, H0522: 1 and H0343: 1.					2-28, 96- 112
783	HSXDF62	871038	793	82 - 420	2198	Asp-37 to His-51.	AR033: 11, AR055: 11, AR060: 7, AR061: 5, AR089: 5, AR052: 4, AR096: 4, AR053: 4, AR039: 3, AR104: 2					62-82, 97- 113, 3-19

784	HSVCE22	871088	794	78 - 440	2199			H0586: 1 and S0036: 1. AR052: 14, AR089: 10, AR053: 10, AR096: 9, AR055: 9, AR033: 7, AR060: 7, AR039: 6, AR104: 4, AR061: 4 H0309: 1, L0768: 1, L0527: 1 and L0749: 1.				43-64, 98-114
785	HFKLC74	871186	795	2045 - 687	2200	Gly-15 to His-26, Pro-28 to Asn-35, Pro-81 to Asn-98, Pro-118 to Arg-125.		AR060: 1, AR053: 1, AR033: 1, AR061: 1, AR096: 1, AR089: 1, AR104: 1, AR039: 0, AR055: 0, AR052: 0 L0794: 5, L0743: 4, H0265: 3, S0418: 3, H0620: 3, H0040: 3, H0561: 3, L0662: 3, L0803: 3, L0809: 3, L0759: 3, H0592: 2, H0559: 2, H0253: 2, H0318: 2, H0086: 2, H0494: 2, L0771: 2, L0766: 2, L0659: 2, L0352: 2, H0659: 2, H0670: 2, H0555: 2, S3012: 2, S0027: 2, L0748: 2, L0750: 2, H0542: 2, H0556: 1, H0650: 1, H0341: 1, H0484: 1, H0402: 1, S0354: 1, S0360: 1, H0580: 1, H0586: 1, H0497: 1, H0333:				97-116, 128-145, 162-178, 236-252

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786	HTLEV30	871212	796	189 - 506	2201			AR061: 3, AR033: 3, AR089: 3, AR052: 3, AR055: 3, AR060: 2, AR096: 2, AR053: 1, AR104: 1, AR039: 0 H0046: 4, H0688: 2, H0539: 2, L0779: 2, H0739: 1, H0717: 1, H0550: 1, L0021: 1, H0253: 1, L0118:				81-106, 57-79	

787	HSRAV54	871264	797	969 - 1280	2202	Met-1 to Lys-9, Ala-11 to Trp-22, Pro-82 to Glu-92.	1, H0286: 1, H0100: 1, H0509: 1, L0373: 1, L0643: 1, L0645: 1, L0657: 1, H0435: 1, H0696: 1, L0749: 1, L0780: 1, L0755: 1, H0543: 1, S0042: 1 and H0677: 1.				
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788	HTLID05	871356	798	157 - 1008	2203		AR033: 15, AR055: 7, AR060: 4, AR061: 3, AR089: 3, AR052: 3, AR053: 3, AR104: 2, AR096: 2 S0282: 2, L0769: 2, L0794: 2, L0665: 2, L0438: 2, H0618: 1, S0010: 1, S0049: 1, H0052: 1, H0194: 1, S0051: 1, T0041: 1, L0770: 1, L0639: 1, L0761: 1, L0659: 1, L0809: 1, L0666: 1, L0352: 1, L0612:				44-60, 160-176, 61-77



789	HDACG50	871387	799	180 - 551	2204		1, L0439: 1, L0779: 1 and L0366: 1. AR052: 5, AR089: 5, AR060: 4, AR053: 4, AR096: 3, AR033: 3, AR104: 2, AR039: 1, AR055: 1, AR061: 1 L0748: 10, L0752: 9, L0731: 8, S0380: 7, L0758: 7, L0747: 6, H0038: 4, L0766: 4, L0438: 4, L0749: 4, S0003: 3, L0638: 3, L0768: 3, L0754: 3, L0770: 2, L0769: 2, L0774: 2, L0659: 2, H0522: 2, L0439: 2, L0740: 2, L0750: 2, L0786: 2, L0757: 2, L0759: 2, L0595: 2, L0362: 2, L0601: 2, S0040: 1, H0656: 1, S0354: 1, S0358: 1, T0008: 1, H0580: 1, S0045: 1, H0612: 1, H0497: 1, L0586: 1, H0013: 1, H0250: 1, H0635: 1, H0004: 1, S0010: 1, L0105: 1, H0546: 1, H0457: 1, H0083: 1, S0022: 1, S0214: 1, L0483: 1, H0031: 1, H0032: 1, H0673: 1, H0090: 1, H0412: 1, L0351: 1, H0494: 1.			87-103
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790	HWAGU6 2	871413	800	19 - 732	2205	Pro-94 to Lys-100, Glu-142 to Gln-147.	<p>H0633: 1, S0144: 1, S0344: 1, S0002: 1, L0369: 1, L0772: 1, L0646: 1, L0764: 1, L0662: 1, L0775: 1, L0653: 1, L0384: 1, L0383: 1, L0664: 1, H0144: 1, H0520: 1, S0126: 1, H0435: 1, S0152: 1, H0521: 1, H0696: 1, H0555: 1, S0028: 1, S0260: 1, S0436: 1, L0589: 1, S0242: 1, S0194: 1, H0423: 1, H0422: 1 and S0424: 1.</p> <p>AR096: 6, AR039: 6, AR052: 6, AR089: 5, AR033: 5, AR053: 4, AR060: 4, AR055: 3, AR061: 3, AR104: 3, S0356: 10, S0422: 3, L0766: 3, L0803: 3, S0330: 3, H0486: 2, L0743: 2, L0731: 2, H0170: 1, L0785: 1, S0116: 1, S0442: 1, S0354: 1, S0358: 1, S0410: 1, S0278: 1, H0642: 1, H0581: 1, H0596: 1, H0355: 1, S0003: 1, L0455: 1, H0090: 1, H0591: 1, S0142: 1, S0344: 1, S0426: 1, L0598: 1, L0794: 1, L0804:</p>					211-238, 68-93, 146-164, 178-197, 1-22, 29- 45
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791	HOEBN65	871416	801	122 - 577	2206	Phe-17 to Ala-26, Arg-44 to Ile-51, Lys-64 to Asp-72, Thr-100 to Leu-110.	1, L0659: 1, L0809: 1, L0789: 1, L0664: 1, H0547: 1, H0660: 1, S0378: 1, L0751: 1, L0754: 1, L0779: 1, L0780: 1, L0758: 1, L0608: 1, S0026: 1 and H0543: 1.				120-148
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792	HOEEY60	871485	802	155 - 499	2207	Lys-38 to Ser-45.	1, H0149: 1, H0265: 1, H0140: 1, H0295: 1, H0294: 1, S0430: 1, H0657: 1, H0341: 1, H0484: 1, H0402: 1, H0125: 1, S0420: 1, S0360: 1, S0410: 1, L0467: 1, H0441: 1, H0370: 1, H0330: 1, H0600: 1, H0592: 1, H0586: 1, H0333: 1, H0492: 1, H0486: 1, H0156: 1, H0618: 1, H0253: 1, S0346: 1, H0581: 1, H0196: 1, H0204: 1, H0545: 1, H0123: 1, H0320: 1, H0014: 1, H0399: 1, H0594: 1, H0687: 1, H0252: 1, H0615: 1, T0006: 1, H0604: 1, H0182: 1, H0090: 1, H0616: 1, H0087: 1, H0412: 1, S0150: 1, S0142: 1, L0763: 1, L0761: 1, L0772: 1, L0764: 1, L0794: 1, L0533: 1, L0775: 1, L0653: 1, L0655: 1, L0659: 1, L0530: 1, S0330: 1, H0696: 1, S0406: 1, L0740: 1, L0754: 1, L0753: 1, H0667: 1, S0192: 1 and H0543: 1.			15-37, 83- 99, 53-69
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793	HHECK12	871540	803	2 - 967	2208			Lys-14 to Gly-19, Asp-62 to Ile-67, Asn-87 to Glu-107.	AR104: 9, AR033: 9, AR039: 7, AR060: 7, AR089: 4, AR052: 2, AR055: 2, AR053: 2, AR096: 2, AR061: 1 S0010: 1, S0374: 1, L0366: 1, S0276: 1 and H0542: 1.			30-59, 17-39, 233-249
794	HTLEM32	871541	804	175 - 675	2209			Ile-35 to Leu-45, Lys-67 to Gly-72, Asp-115 to Ile-120, Asn-140 to Ser-154.	AR039: 20, AR033: 17, AR055: 14, AR104: 14, AR053: 13, AR060: 13, AR089: 12, AR061: 7, AR052: 7, AR096: 7			83-112, 70-92
795	HPMT61	871619	805	31 - 498	2210				AR055: 7, AR052: 5, AR060: 4, AR089: 4, AR033: 4, AR061: 4, AR053: 3, AR096: 3, AR104: 2, AR039: 1, L0748: 4, L0809: 3, L0439: 3, L0777: 2, L0589: 2, S0278: 1, H0024: 1, H0644: 1, L0791: 1, H0547: 1, L0749: 1 and H0352: 1.			104-127
796	HHEOI72	871663	806	237 -	2211			Lys-4 to Arg-9,	AR052: 3, AR089: 3,			9-32, 170-

797	HAPRN77	871674	807	26 - 379	2212	1685	Asp-51 to Asp-56, Lys-251 to Thr-257, Asn-333 to Trp-339, Ala-411 to Pro-422.	AR053: 2, AR055: 2, AR096: 2, AR060: 1, AR033: 1, AR061: 1, AR039: 0, AR104: 0 H0484: 3, L0439: 3, S0354: 2, H0521: 2, H0265: 1, H0341: 1, S0356: 1, H0427: 1, H0052: 1, H0373: 1, H0553: 1, H0264: 1, H0494: 1, S0422: 1, L0666: 1, L0438: 1, S0270: 1, H0555: 1, H0576: 1, S0028: 1, L0743: 1, L0749: 1, L0777: 1, H0445: 1, S0436: 1 and H0543: 1.				203, 66- 89, 145- 166, 94- 113, 212- 228, 267- 283, 289- 305, 345- 361, 121- 137, 426- 442, 311- 327, 449- 465
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798	HLJDL43	871689	808	577 - 972	2213	His-2 to Gly-19, Gly-63 to Gly-70, Pro-89 to Ser-95, Lys-105 to Ser-118.	AR053: 27, AR052: 23, AR096: 23, AR033: 20, AR039: 19, AR104: 18, AR089: 14, AR060: 12, AR055: 11, AR061: 6 L0766: 8, H0521: 4, L0748: 4, L0439: 4, S0360: 3, H0581: 2, L0471: 2, H0135: 2, H0264: 2, L0805: 2, L0776: 2, L0754: 2, L0599: 2, H0423: 2, H0624: 1, H0265: 1, H0556: 1, S0040: 1, H0657: 1, H0662: 1, S0045: 1, S0222: 1, H0592: 1, H0485: 1, H0599: 1, H0575: 1, H0618: 1, S0010: 1, H0545: 1, H0009: 1, H0014: 1, T0010: 1, H0510: 1, H0375: 1, S0022: 1, H0591: 1, H0100: 1, S0142: 1, L0770: 1, L0761: 1, L0794: 1, L0375: 1, S0216: 1, S0374: 1, L0438: 1, H0520: 1, H0539: 1, S0027: 1, L0740: 1, L0751: 1, L0777: 1, L0752: 1, L0757: 1, L0759: 1, L0594: 1, L0366: 1, H0542: 1 and H0543: 1.				39-61, 71- 87
799	HTXOX92	871693	809	131 -	2214	Ser-31 to Trp-37,	AR033: 20, AR052: 14,				159-176,



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800	HLJDU57	871712	810	10 - 435	2215	Glu-79 to Tyr-86.	H0506: 1. AR096: 6, AR089: 4, AR052: 3, AR060: 3, AR053: 2, AR033: 2, AR055: 2, AR061: 1, AR104: 1, AR039: 1 H0375: 1, L0649: 1 and H0522: 1.				1-30, 24- 49, 92- 113, 118- 142, 51-71
801	HHFKL03	871735	811	38 - 718	2216	Ile-11 to Arg-16, Val-18 to Ser-25, Ser-28 to Thr-36, Glu-41 to Ser-46.	AR033: 10, AR089: 8, AR052: 7, AR053: 6, AR060: 6, AR096: 6, AR104: 5, AR055: 4, AR039: 3, AR061: 2				122-145, 66-83, 147-163, 171-187, 190-206, 48-64
802	HNTTB69	871818	812	540 - 839	2217	Pro-71 to Pro-80, Pro-87 to Phe-92, Leu-95 to Thr-100.	AR096: 1, AR104: 1, AR060: 1, AR089: 1, AR061: 0, AR033: 0, AR039: 0, AR055: 0, AR052: 0 L0595: 14, H0521: 7, L0783: 5, H0520: 5, H0547: 5, L0593: 5, S0356: 3, H0615: 3, L0794: 3, L0776: 3, H0519: 3, L0747: 3, L0596: 3, H0599: 2, H0251: 2, H0622: 2, H0038: 2, H0494: 2, L0769: 2, L0764: 2, L0771: 2, L0766: 2, L0740: 2, L0754: 2, L0755:				53-69

803	HKAAA37	871827	813	323 - 886	2218	Ile-162 to Pro-168, Glu-175 to Lys-188.	2, L0731: 2, H0657: 1, H0341: 1, H0663: 1, S0408: 1, S0045: 1, H0393: 1, H0331: 1, H0574: 1, T0114: 1, H0318: 1, H0046: 1, H0266: 1, H0328: 1, H0039: 1, H0591: 1, T0042: 1, H0561: 1, H0641: 1, S0002: 1, L0761: 1, L0800: 1, L0498: 1, L0803: 1, L0774: 1, L0805: 1, L0657: 1, S0126: 1, H0435: 1, S0454: 1, H0134: 1, H0436: 1, S0027: 1, L0749: 1, L0750: 1, L0591: 1, H0667: 1, H0542: 1, H0543: 1 and H0423: 1.					104-120, 80-97, 54- 70, 12-28, 122-138, 32-48
804	HACCB78	871878	814	121 - 588	2219		AR033: 2, AR053: 1, AR089: 1, AR060: 1, AR096: 1, AR052: 0, AR061: 0, AR039: 0  AR052: 16, AR053: 15, AR096: 13, AR055: 13, AR089: 10, AR033: 10, AR060: 9, AR061: 7, AR104: 6, AR039: 4 L0777: 3, L0769: 2, L0521: 2, L0665: 2, L0749:					26-48, 72- 88, 6-23, 91-107

805	HMAKM2 7	871887	815	866 - 1252	2220				2, L0758: 2, L0604: 2, H0624: 1, H0351: 1, H0586: 1, H0333: 1, H0427: 1, S0280: 1, L0021: 1, S0010: 1, H0194: 1, H0620: 1, H0051: 1, H0033: 1, H0090: 1, H0038: 1, L0637: 1, L0794: 1, L0766: 1, L0774: 1, L0775: 1, L0776: 1, L0512: 1, L0783: 1, L0809: 1, L0663: 1, H0547: 1, H0682: 1, S3014: 1, L0439: 1, L0752: 1 and H0506: 1. AR055: 6, AR033: 5, AR052: 5, AR053: 5, AR060: 4, AR104: 4, AR096: 4, AR061: 3, AR089: 3, AR039: 0 L0438: 6, L0439: 5, H0661: 3, L0776: 3, H0556: 2, H0100: 2, L0598: 2, L0764: 2, L0766: 2, L0659: 2, H0672: 2, L0777: 2, L0731: 2, H0170: 1, H0171: 1, H0265: 1, H0140: 1, S0114: 1, H0657: 1, H0656: 1, H0638: 1, S0418: 1, S0408: 1, S0046: 1, H0411: 1, S0278: 1, H0550: 1, S0222: 1, T0104: 1, H0600:				58-82, 12- 28
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806	HTLEO76	871905	816	80 - 439	2221	Arg-16 to Thr-22.	1, S0280: 1, S0474: 1, H0007: 1, T0110: 1, H0046: 1, H0457: 1, H0150: 1, H0620: 1, H0057: 1, H0051: 1, H0039: 1, H0030: 1, L0055: 1, H0090: 1, H0413: 1, H0623: 1, H0059: 1, H0647: 1, H0529: 1, L0770: 1, L0646: 1, L0645: 1, L0521: 1, L0794: 1, L0650: 1, L0789: 1, L0666: 1, L0663: 1, L0664: 1, H0144: 1, H0547: 1, S0152: 1, H0576: 1, L0740: 1, L0747: 1, L0750: 1, L0756: 1, L0779: 1, L0757: 1, L0758: 1, L0595: 1 and H0422: 1.					100-120, 54-71, 1- 17
807	HTPBR76	871944	817	467 - 856	2222	Met-1 to Ser-7.	AR096: 34, AR039: 27, AR089: 25, AR104: 18, AR060: 16, AR052: 14, AR033: 11, AR053: 10, AR055: 9, AR061: 6 H0253: 1, H0050: 1 and L0794: 1. AR033: 9, AR104: 6, AR055: 5, AR061: 5, AR039: 4, AR053: 3, AR060: 3, AR089: 3, AR052: 2, AR096: 2					41-57, 10- 26



808	HNTNH42	871982	818	1 - 768	2223	Ala-9 to Thr-14, Pro-25 to Asp-37, Gln-52 to Ile-59, Thr-80 to Pro-93.	L0771: 2, L0662: 2, L0756: 2, L0591: 2, S0282: 1, S0358: 1, S0444: 1, S0408: 1, S0010: 1, S0049: 1, H0327: 1, H0569: 1, H0014: 1, H0051: 1, H0039: 1, L0770: 1, L3905: 1, L0761: 1, L0774: 1, L0659: 1, L0789: 1, S0374: 1, L0438: 1, L0439: 1, L0747: 1, L0779: 1, L0777: 1, S0260: 1 and L0596: 1. AR052: 218, AR096: 199, AR089: 163, AR053: 162, AR060: 131, AR039: 50, AR033: 46, AR061: 41, AR104: 38, AR055: 18 L0731: 9, L0665: 6, H0024: 4, L0745: 4, L0747: 4, L0662: 3, L0794: 3, H0550: 2, H0081: 2, H0012: 2, S0022: 2, H0100: 2, L0769: 2, L0764: 2, L0659: 2, H0520: 2, L0777: 2, L0759: 2, H0685: 1, S0040: 1, S0354: 1, H0351: 1, H0392: 1, H0586: 1, L0021: 1, H0253: 1, L0157: 1, H0123: 1, H0050: 1, L0471: 1, H0328: 1, H0615: 1,						120-152
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809	HFRCB84	871985	819	123 - 554	2224				H0063: 1, L0598: 1, L0770: 1, L0638: 1, L0521: 1, L0768: 1, L0776: 1, L0629: 1, L0657: 1, L0783: 1, L0809: 1, L0666: 1, L0663: 1, S0148: 1, H0670: 1, H0134: 1 and L0779: 1.				1-35, 29-50, 76-94, 101-117
810	HLWDZ48	871994	820	97 - 645	2225				AR055: 4, AR039: 0, AR061: 0, AR096: 0, AR060: 0, AR089: 0 H0738: 1, S0220: 1 and S0050: 1.				129-148, 99-115, 79-95

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811	HKAOC61	872013	821	170 - 628	2226				1, H0316: 1, H0038: 1, H0551: 1, H0412: 1, H0059: 1, H0334: 1, S0150: 1, H0130: 1, S0210: 1, S0422: 1, L0638: 1, L0667: 1, L0372: 1, L0803: 1, L0774: 1, L0376: 1, L0784: 1, L0655: 1, L0659: 1, L0383: 1, L0382: 1, L0809: 1, L0792: 1, S0216: 1, H0144: 1, H0691: 1, S0148: 1, H0593: 1, H0682: 1, S0330: 1, H0521: 1, H0522: 1, H0704: 1, H0436: 1, S0027: 1, L0786: 1, L0759: 1, H0707: 1, L0480: 1, L0604: 1, S0192: 1 and S0460: 1. AR104: 19, AR061: 19, AR033: 18, AR055: 15, AR089: 15, AR060: 14, AR052: 9, AR039: 8, AR096: 8, AR053: 6 L0751: 7, L0769: 6, L0750: 5, L0752: 5, H0052: 4, L0771: 4, L0775: 4, L0758: 4, H0556: 3, L0665: 3, H0486: 2, S0010: 2, H0620: 2, T0006: 2, H0181: 2, H0494: 2, L0774: 2, L0375: 2, L0776: 2, L0512:					55-73, 6- 22, 84- 100, 24-40
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812	HHMJ13	872036	822	31 - 648	2227	Asn-33 to Thr-38,	2, L0659: 2, H0555: 2, S0206: 2, L0740: 2, L0747: 2, L0596: 2, L0588: 2, S0276: 2, H0624: 1, S0402: 1, T0049: 1, H0341: 1, H0662: 1, S0358: 1, S0376: 1, S0360: 1, S0045: 1, S0476: 1, L0717: 1, H0351: 1, S0222: 1, H0455: 1, T0114: 1, L0021: 1, H0618: 1, T0048: 1, H0318: 1, L0109: 1, H0309: 1, H0544: 1, H0546: 1, H0545: 1, H0009: 1, H0123: 1, L0471: 1, H0424: 1, H0031: 1, H0628: 1, H0617: 1, H0063: 1, H0059: 1, H0100: 1, H0625: 1, H0633: 1, H0646: 1, H0517: 1, L0770: 1, L0764: 1, L0766: 1, L0655: 1, L0657: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0529: 1, L0664: 1, S0428: 1, H0593: 1, S0126: 1, H0682: 1, H0659: 1, H0670: 1, H0648: 1, L0611: 1, S0432: 1, L0756: 1, L0757: 1, S0436: 1 and S0194: 1.				106-122,

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813	HTFOA36	872070	823	41 - 871	2228	Arg-13 to Arg-34, Gly-45 to Asn-50, His-198 to Pro-211, His-255 to Tyr-262.	1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, S0052: 1, L0438: 1, H0684: 1, H0539: 1, S0152: 1, S0146: 1, H0555: 1, H0478: 1, L0609: 1, S0027: 1, L0747: 1, L0777: 1, L0592: 1, S0242: 1, H0543: 1, H0677: 1 and H0506: 1.				
							AR096: 1, AR052: 1, AR089: 0, AR055: 0, AR061: 0, AR039: 0, AR060: 0, AR033: 0, AR104: 0, AR053: 0 S0053: 1, S0216: 1 and S0424: 1.			163-196, 73-89	
814	HULEW22	872087	824	49 - 432	2229	Tyr-26 to Thr-34.	AR096: 2, AR089: 1, AR104: 1, AR033: 1, AR060: 0, AR061: 0, AR053: 0, AR052: 0, AR039: 0 H0208: 1, H0530: 1, H0494: 1 and L0654: 1.			56-73	
815	HWADE54	872092	825	2324 - 591	2230		AR096: 3, AR061: 2, AR089: 2, AR060: 2, AR055: 1, AR053: 1, AR033: 1, AR052: 1, AR104: 0 H0617: 6, L0794: 6,			434-457, 352-372, 464-481, 498-514, 90-108, 415-431,	

					L0803: 6, L0663: 5, L0747: 5, L0758: 5, H0039: 4, L0731: 4, L0804: 3, L0806: 3, L0665: 3, L0439: 3, H0265: 2, H0556: 2, S0360: 2, H0575: 2, H0618: 2, H0253: 2, H0581: 2, H0546: 2, H0424: 2, H0030: 2, H0494: 2, L0769: 2, L0662: 2, L0768: 2, L0809: 2, L0791: 2, H0684: 2, S0380: 2, L0743: 2, L0744: 2, L0748: 2, L0740: 2, L0756: 2, L0603: 2, H0624: 1, H0171: 1, T0002: 1, H0294: 1, S0114: 1, S0134: 1, S0116: 1, H0483: 1, H0255: 1, S0418: 1, S0420: 1, S0442: 1, S0354: 1, S0300: 1, S0278: 1, S0222: 1, H0486: 1, L0021: 1, H0052: 1, H0545: 1, H0009: 1, H0081: 1, H0050: 1, L0471: 1, H0012: 1, H0275: 1, H0179: 1, H0687: 1, H0290: 1, H0252: 1, H0553: 1, H0644: 1, H0182: 1, H0674: 1, H0040: 1, H0551: 1, H0059: 1, T0041: 1, H0625: 1, L0763: 1, L0761: 1.	529-545, 220-236, 375-391
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									L0646: 1, L0374: 1, L0644: 1, L0764: 1, L0771: 1, L0649: 1, L0659: 1, L0542: 1, L0783: 1, L0789: 1, L0790: 1, L0792: 1, L0666: 1, S0053: 1, S0216: 1, H0144: 1, L0352: 1, H0547: 1, H0593: 1, H0689: 1, H0435: 1, H0670: 1, S0330: 1, H0521: 1, S0406: 1, H0631: 1, S3012: 1, S3014: 1, L0749: 1, L0755: 1, H0445: 1, S0436: 1, L0595: 1, S0011: 1, H0542: 1, H0423: 1 and H0506: 1.				
816	HEMH46	872093	826	60 - 596	2231	Ala-14 to Gly-23, Gly-28 to Ser-34, Gly-56 to Pro-66, Asp-74 to Ala-80, Pro-109 to Tyr-114, Pro-165 to Gln-174.	AR096: 13, AR039: 12, AR089: 12, AR104: 9, AR060: 9, AR055: 9, AR053: 8, AR052: 7, AR033: 7, AR061: 5				135-152		
817	HFPX46	872113	827	1042 - 1389	2232	Met-1 to Ser-8, Arg-55 to Gly-60, Val-93 to Leu-99.	AR055: 8, AR033: 8, AR060: 5, AR061: 5, AR052: 4, AR096: 4, AR053: 4, AR104: 4, AR089: 3, AR039: 2 H0550: 1, S0222: 1, H0057: 1, S6028: 1, H0031: 1, H0560: 1, S0002: 1,				62-79, 98-114		

818	HHPDK44	872141	828	158 - 733	2233					S0426: 1, L0769: 1, L0775: 1, L0741: 1, L0740: 1, L0758: 1 and L0366: 1. AR096: 2, AR055: 2, AR089: 1, AR061: 1, AR104: 1, AR060: 0, AR053: 0, AR039: 0, AR033: 0, AR052: 0 L0805: 5, L0750: 3, L0777: 3, H0591: 2, L0803: 2, L0804: 2, H0520: 2, H0547: 2, L0744: 2, L0779: 2, L0752: 2, L0731: 2, S0282: 1, S0360: 1, S0300: 1, H0411: 1, H0013: 1, H0599: 1, H0042: 1, H0581: 1, H0251: 1, H0596: 1, H0123: 1, H0620: 1, H0014: 1, H0051: 1, H0328: 1, H0553: 1, H0169: 1, H0413: 1, S0422: 1, L0776: 1, L0791: 1, H0144: 1, H0519: 1, H0521: 1, H0522: 1, L0356: 1, L0439: 1, L0756: 1, L0780: 1, L0753: 1 and L0759: 1.			53-91, 51-67
819	HE2FK85	872190	829	296 - 841	2234					AR033: 2, AR096: 2, AR104: 2, AR053: 2, AR060: 2, AR061: 2,			4-26, 38-64, 81-110, 154-

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820	HPQSL36	872224	830	48 - 404	2235			1, H0648: 1, S0330: 1, H0539: 1, H0521: 1, H0522: 1, S0404: 1, S0028: 1, S0206: 1, L0786: 1, L0780: 1, L0753: 1, L0755: 1, S0260: 1, S0434: 1, L0480: 1, L0591: 1, H0668: 1, S0026: 1, H0667: 1 and H0008: 1.				53-83, 73-95, 101-118, 20-36, 2-18	
821	HEQBF64	872357	831	18 - 680	2236	Thr-68 to Gln-82, Val-198 to Val-203, Glu-205 to Asp-221.		AR039: 60, AR052: 32, AR053: 32, AR104: 27, AR033: 27, AR055: 26, AR089: 24, AR096: 21, AR060: 20, AR061: 12, S0136: 1 and H0521: 1, AR052: 13, AR053: 11, AR033: 10, AR060: 10, AR096: 9, AR061: 8, AR089: 7, AR104: 6, AR039: 5, AR055: 4, L0766: 11, H0556: 8, L0731: 6, H0265: 4, H0009: 3, H0083: 3, H0124: 3, H0509: 3, L0752: 3, S0116: 2, H0638: 2, S0356: 2, S0354: 2, S0408: 2, S0346: 2, H0560: 2, S0002: 2, L0805: 2, L0659: 2, L0438: 2, S0126: 2, L0740: 2,				6-24, 27-46, 89-105, 114-130, 163-179	

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822	HAMGB22	872526	832	2389 - 2081	2237	Lys-25 to Gln-31, Gln-94 to Tyr-103.	S0027: 1, L0744: 1, L0748: 1, L0439: 1, L0750: 1, L0779: 1, L0755: 1, L0759: 1, H0445: 1, H0653: 1, H0665: 1, H0542: 1, S0424: 1 and S0384: 1. AR033: 3, AR053: 3, AR052: 3, AR096: 3, AR089: 2, AR060: 2, AR104: 2, AR039: 2, AR055: 2, AR061: 1 L0766: 7, L0758: 3, L0759: 3, H0038: 2, H0560: 2, L0804: 2, L0775: 2, L0751: 2, L0779: 2, L0595: 2, H0656: 1, S0212: 1, H0664: 1, S0354: 1, L0011: 1, H0156: 1, H0599: 1, S0346: 1, H0581: 1, H0673: 1, H0591: 1, H0413: 1, H0623: 1, S0038: 1, L0370: 1, H0561: 1, S0422: 1, L0770: 1, L0772: 1, L0642: 1, L0803: 1, L0774: 1, L0656: 1, L0663: 1, S0428: 1, H0519: 1, S0330: 1, H0539: 1, H0521: 1, H0555: 1, H0576: 1, L0588: 1, L0605: 1 and H0667: 1.					66-83, 7- 23
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823	HDABD89	872527	833	57 - 1514	2238	His-66 to Pro-80, Gly-139 to Ser-146, Phe-270 to Lys-275.	AR055: 4, AR089: 3, AR052: 2, AR033: 2, AR096: 2, AR053: 1, AR060: 1, AR061: 1, AR104: 1, AR039: 0 L0439: 26, L0438: 8, S0007: 7, H0547: 5, L0754: 5, H0618: 4, H0546: 4, H0617: 4, L0747: 4, S0376: 3, H0013: 3, H0253: 3, H0052: 3, H0009: 3, L0769: 3, S0206: 3, L0748: 3, H0295: 2, S0045: 2, S0046: 2, H0370: 2, H0123: 2, L0471: 2, H0135: 2, H0100: 2, L0766: 2, H0144: 2, H0539: 2, L0758: 2, L0588: 2, L0595: 2, L0411: 1, H0170: 1, H0556: 1, H0686: 1, S0040: 1, S0342: 1, H0657: 1, H0663: 1, H0662: 1, L0717: 1, H0602: 1, H0497: 1, H0333: 1, T0039: 1, H0156: 1, H0599: 1, T0048: 1, H0196: 1, H0545: 1, H0178: 1, H0567: 1, H0620: 1, H0023: 1, S0051: 1, T0010: 1, H0266: 1, S0022: 1, H0039: 1, H0628: 1, H0606: 1, H0032: 1,				149-165, 216-232
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824	HPMFU11	873145	834	1081 - 644	2239			H0383: 1, H0090: 1, H0087: 1, H0551: 1, T0067: 1, H0268: 1, H0412: 1, T0042: 1, H0494: 1, S0210: 1, L0369: 1, L0796: 1, L0800: 1, L0645: 1, L0764: 1, L0768: 1, L0540: 1, L0518: 1, L0783: 1, L0519: 1, H0520: 1, H0659: 1, H0658: 1, H0670: 1, H0672: 1, H0696: 1, S0044: 1, H0627: 1, S3014: 1, S0027: 1, S0028: 1, L0742: 1, L0779: 1, L0780: 1, L0757: 1, S0031: 1, T0047: 1 and H0008: 1.  AR033: 5, AR060: 5, AR089: 5, AR096: 3, AR061: 2, AR053: 2, AR039: 2, AR104: 1, AR052: 1, AR055: 0 L0748: 13, L0747: 12, L0439: 11, L0766: 9, L0794: 7, H0013: 5, L0770: 5, L0749: 5, H0486: 4, L0754: 4, L0581: 4, H0657: 3, H0264: 3, L0662: 3, L0803: 3, L0804: 3, L0776: 3, L0789: 3, L0750: 3, L0779: 3, H0445: 3, H0656:				83-109
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825	HHEFL55	873186	835	98 - 661	2240	Asp-2 to Arg-9.	2, S0442: 2, H0586: 2, H0587: 2, H0427: 2, H0581: 2, L0157: 2, L0769: 2, L0775: 2, L0806: 2, L0659: 2, L0665: 2, H0144: 2, S0374: 2, L0438: 2, L0731: 2, L0596: 2, L0599: 2, H0685: 1, S0116: 1, H0306: 1, S0358: 1, S0408: 1, H0592: 1, H0706: 1, H0036: 1, S0346: 1, L0307: 1, H0251: 1, H0309: 1, T0110: 1, H0231: 1, H0057: 1, H0014: 1, H0510: 1, S0250: 1, H0252: 1, T0006: 1, H0030: 1, H0031: 1, H0553: 1, H0644: 1, H0361: 1, H0591: 1, H0433: 1, S0002: 1, L0761: 1, L0650: 1, L0784: 1, L0805: 1, L0655: 1, L0606: 1, L0515: 1, L0783: 1, L0809: 1, L0532: 1, L0663: 1, H0690: 1, H0518: 1, S0152: 1, H0521: 1, S0037: 1, L0744: 1, L0777: 1, S0260: 1, L0366: 1, H0677: 1, H0506: 1 and H0008: 1.	AR089: 1, AR033: 1, AR055: 1, AR061: 0,					145-174, 70-86, 94-
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826	HHFJG66	873355	836	1277 - 2503	2241	Arg-16 to Thr-21, Gly-31 to Thr-36, Thr-53 to Val-68, Val-72 to Ser-86, Ser-121 to Arg-127, Met-151 to Ile-157, Asn-160 to Phe-176, Pro-190 to Val-198, Arg-293 to Gly-298, Glu-304 to Asp-312, Ser-319 to Ser-325, Gln-330 to Glu-336, Leu-386 to Asp-392.	L0792: 1, L0663: 1, H0520: 1, H0547: 1, H0519: 1, H0670: 1, H0672: 1, S0328: 1, S0380: 1, L0779: 1, H0668: 1, H0667: 1, S0192: 1 and H0542: 1. AR055: 6, AR033: 5, AR052: 5, AR089: 5, AR053: 4, AR060: 4, AR061: 4, AR039: 3, AR104: 3, AR096: 2 H0295: 3, H0618: 3, H0052: 3, L0662: 3, H0619: 2, S0222: 2, L0768: 2, L0803: 2, H0521: 2, L0439: 2, L0754: 2, L0779: 2, L0758: 2, H0542: 2, S0114: 1, H0341: 1, H0483: 1, H0559: 1, L0586: 1, H0013: 1, H0253: 1, H0123: 1, H0012: 1, H0271: 1, H0687: 1, H0488: 1, H0413: 1, H0494: 1, S0150: 1, H0529: 1, L0637: 1, L0372: 1, L0643: 1, L0644: 1, L0645: 1, L0774: 1, L0666: 1, L0663: 1, L0664: 1, H0547: 1, H0519: 1, H0690: 1, S0328: 1, S0378: 1, S0190: 1, H0436: 1, S0037: 1,				240-257, 86-102, 362-378
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827	HBMWZ8 5	873653	837	476 - 778	2242	Thr-22 to Thr-33, Leu-92 to Thr-97.	AR052: 114, AR053: 78, AR096: 69, AR055: 65, AR089: 48, AR039: 46, AR033: 46, AR104: 41, AR061: 38, AR060: 37 S0114: 4, S0010: 3, H0059: 3, H0171: 2, S0116: 2, S0046: 2, S0051: 2, S0126: 2, S0134: 1, S0218: 1, H0255: 1, S0045: 1, S6016: 1, S0222: 1, H0632: 1, H0013: 1, H0251: 1, H0263: 1, H0200: 1, H0628: 1, H0674: 1, H0135: 1, H0038: 1, H0087: 1, T0090: 1, S0150: 1, S0142: 1, S0044: 1, H0576: 1 and S0026: 1.			57-76, 2- 18
828	HTTEL61	873679	838	239 - 622	2243	Gln-3 to Trp-10.	AR061: 50, AR033: 45, AR089: 41, AR060: 36, AR055: 35, AR096: 33, AR053: 32, AR052: 32, AR104: 17, AR039: 10 H0040: 2, H0087: 1 and L0750: 1.			67-83
829	HHKKA25	873756	839	61 - 768	2244	Met-1 to Pro-7.	AR061: 11, AR089: 4, L0750: 1.	17p11.2	100710,	122-155,

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830	HTLEH76	873788	840	354 - 881	2245	AR055: 5, AR060: 3, AR089: 3, AR061: 3, AR033: 3, AR052: 2, AR104: 1, AR096: 1, AR053: 0, AR039: 0 H0253: 7, H0618: 6, L0758: 2, L0603: 2, H0050: 1, H0014: 1 and L0769: 1.		119-135
831	HHEVQ56	874064	841	325 - 645	2246	Ser-101 to Asn-106. AR096: 4, AR033: 3, AR039: 3, AR053: 3, AR104: 3, AR052: 3, AR089: 2, AR061: 2, AR060: 2, AR055: 2 L0439: 5, L0777: 5, H0052: 4, L0803: 4, L0789: 4, L0666: 4, H0556: 3,		65-91, 15- 36, 42-58

832	HTPHY39	874346	842	410 -	2247	Asp-2 to Asn-9,	H0090: 3, L0770: 3, L0766: 3, H0670: 3, L0747: 3, L0756: 3, L0755: 3, S0354: 2, S0408: 2, H0580: 2, L0021: 2, H0135: 2, L0768: 2, L0805: 2, L0809: 2, L0787: 2, L0438: 2, H0547: 2, S0406: 2, L0754: 2, L0745: 2, L0758: 2, L0759: 2, L0393: 1, H0657: 1, H0656: 1, H0661: 1, H0662: 1, S0356: 1, S0358: 1, S0360: 1, H0549: 1, H0486: 1, H0581: 1, H0009: 1, H0014: 1, H0548: 1, H0268: 1, S0015: 1, S0144: 1, S0344: 1, L0769: 1, L0800: 1, L0662: 1, L0767: 1, L0794: 1, L0804: 1, L0774: 1, L0775: 1, L0375: 1, L0632: 1, L0655: 1, L0807: 1, L0659: 1, L0517: 1, L0783: 1, L0647: 1, L0663: 1, L0664: 1, L0665: 1, L0352: 1, H0690: 1, H0521: 1, S0044: 1, L0740: 1, L0749: 1, L0752: 1, L0731: 1, S0192: 1, H0543: 1, H0423: 1 and H0506: 1.				119-139
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833	HPCRR53	874354	843	74 - 454	2248	Arg-112 to Ile-118, Tyr-121 to Ala-127.	AR104: 1, AR096: 1, AR089: 1, AR033: 1, AR060: 1, AR061: 1, AR039: 0, AR055: 0, AR053: 0, AR052: 0			54-77, 86- 102
834	HLQEW26	874356	844	226 - 561	2249	Thr-29 to His-47.	AR052: 25, AR089: 20, AR033: 17, AR060: 16, AR055: 15, AR053: 15, AR104: 14, AR039: 9, AR061: 8, AR096: 8 L0662: 5, L0777: 5, L0805: 4, L0779: 4, L0755: 4, S0380: 3, L0750: 3, L0598: 2, L0770: 2, L0769: 2, L0637: 2, L0771: 2, L0774: 2, L0659: 2, L0663: 2, L0438: 2, H0521: 2, S0404: 2, L0439: 2, L0754: 2, S0442: 1, S0358: 1, S0360: 1, S0408: 1, H0574:			7-24, 80- 96



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835	HSLJR04	874369	845	1102 - 1446	2250		AR096: 2, AR055: 1, AR060: 1, AR089: 1, AR053: 0, AR033: 0, AR061: 0, AR104: 0, AR052: 0, AR039: 0 S0028: 3, H0204: 2, S0031: 2, H0381: 1, S0045: 1, L0105: 1, H0617: 1, S0144: 1, S0052: 1, S0152: 1 and S0390: 1.			75-109, 25-41
836	HCYBG26	874427	846	11 - 385	2251	Tyr-61 to Thr-67.	AR039: 82, AR061: 81, AR033: 75, AR104: 70, AR055: 70, AR096: 66, AR089: 60, AR060: 56,			96-120, 12-36, 69- 85, 42-58

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837	HNGEZ52	874434	847	100 - 1254	2252	AR055: 7, AR060: 3, AR053: 3, AR089: 3, AR052: 3, AR061: 2, AR033: 2, AR096: 2, AR039: 0, AR104: 0 S0049: 1, T0090: 1, S0052: 1 and L0779: 1.			238-254, 53-70, 199-215
838	H2LAY37	874446	848	363 - 1172	2253	Asp-30 to Gly-38, Ser-71 to Arg-77, Leu-85 to Gly-91, Asp-127 to Gly-135, Glu-171 to Gly-176, Pro-182 to Glu-187. AR052: 38, AR039: 15, AR060: 15, AR053: 15, AR033: 12, AR104: 10, AR089: 10, AR096: 9, AR055: 6, AR061: 6 H0638: 74, H0641: 68, L0747: 28, S0358: 26, H0521: 24, L0748: 23, S0360: 18, S0408: 18, L0754: 18, H0659: 15, L0757: 14, L0731: 13, H0250: 12, H0494: 12, S0026: 12, S0444: 11, S0440: 11, L0749: 11, S0328: 10, S0206: 9, L0750: 9, S0132: 8, H0574: 8, S0144: 8, L0740: 8, S0007: 7, S0414: 7, S0142: 7,			51-67, 214-230, 232-248

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839	HCRND05	874528	849	88 - 534	2254	Ala-142 to Ser-149. AR096: 9, AR052: 9, AR104: 7, AR053: 6, AR039: 6, AR060: 5, AR089: 5, AR055: 4, AR033: 4, AR061: 3 H0551: 4, L0665: 3, H0547: 3, S0356: 2, S0360: 2, L0662: 2, L0527: 2, L0666: 2, L0754: 2, H0333: 1, H0012: 1, H0688: 1, H0553: 1, H0477: 1, L0770: 1, L0769: 1, L0650: 1, L0606: 1, L0790: 1, H0520: 1, H0682: 1, L0747: 1, L0779: 1 and L0755: 1.			6-39, 87-110, 58-74, 1-17
840	HCRNP66	874529	850	115 -	2255	AR053: 52, AR096: 36,			113-140,

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841	HNTMD17	874559	851	266 - 790	2256	Met-1 to Tyr-14, Val-91 to Pro-99, Asp-101 to Gln-112.	AR033: 8, AR096: 6, AR052: 5, AR039: 5, AR053: 4, AR089: 4, AR104: 4, AR060: 3, AR055: 2, AR061: 2 L0438: 4, L0746: 4, H0717: 2, H0013: 2, H0581: 2, H0656: 1, H0580: 1, H0415: 1, H0069: 1, H0590: 1, L0471: 1, S6028: 1, H0266: 1, S0003: 1, H0328: 1, H0553: 1, H0644: 1, H0591: 1, H0038: 1, S0438: 1, H0647: 1, H0529: 1, L0766: 1, S0374: 1, H0520: 1, H0547: 1, H0521: 1, L0752: 1, S0434: 1, S0192: 1 and H0542: 1.				155-171, 38-54
842	HMCZ52	874610	852	243 - 1187	2257	Pro-30 to Trp-38, Pro-100 to Lys-109, Tyr-129 to Ala-136, Val-144 to Lys-153, Pro-173 to Gly-178, Phe-193 to Asn-201.	AR055: 9, AR033: 8, AR052: 5, AR060: 5, AR096: 4, AR089: 4, AR061: 3, AR053: 3, AR104: 3, AR039: 2 L0779: 6, S0358: 4,				37-61, 12-28, 70-86, 238-254

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843	HOSOL09	874620	853	126 - 725	2258	Gly-3 to His-9, Pro-88 to Lys-93, Arg-112 to Trp-117.	AR053: 2, AR096: 2, AR060: 2, AR061: 1, AR089: 0, AR052: 0, AR033: 0 S0356: 10, S0422: 3, L0766: 3, L0803: 3, S0330: 3, H0486: 2, L0743: 2, L0731: 2, H0170: 1, L0785: 1, S0116: 1, S0442: 1, S0354: 1, S0358: 1, S0410: 1, S0278: 1, H0642: 1, H0581: 1, H0596: 1, H0355: 1, S0003: 1, L0455: 1, H0090: 1, H0591: 1, S0142:			50-84, 25- 43, 120- 136



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844	HLQH148	874643	854	32 - 751	2259	Pro-2 to Gly-11, Gln-14 to Pro-19, Ala-92 to Asn-101, Gly-132 to Gly-137, Leu-145 to Pro-160, Asp-183 to Gly-191. AR055: 11, AR060: 5, AR053: 5, AR061: 5, AR033: 4, AR089: 4, AR052: 4, AR039: 3, AR096: 2, AR104: 2 L0439: 6, L0777: 3, H0632: 2, L0756: 2, S0360: 1, H0050: 1, H0688: 1, H0412: 1, H0494: 1, H0520: 1, H0670: 1 and L0758: 1.			223-240
845	HTTDU01	874708	855	117 - 989	2260	Ala-133 to Gly-140, Val-165 to Gly-173. AR052: 33, AR053: 21, AR096: 18, AR089: 15, AR060: 13, AR055: 12, AR104: 12, AR033: 11, AR039: 8, AR061: 7 L0803: 6, H0040: 3, H0038: 2, L0756: 2, L0485: 2, L0593: 2, T0002: 1, S0040: 1, H0664: 1, S0356: 1, S0010: 1, T0110: 1,			51-69, 207-223, 141-157, 16-32, 186-202, 80-96

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846	HOSMQ26	874847	856	26 - 424	2261	Lys-8 to Thr-14, Glu-28 to Arg-34.	AR055: 9, AR060: 8, AR096: 6, AR052: 6, AR033: 6, AR053: 5, AR089: 4, AR061: 4, AR104: 4, AR039: 4 L0747: 4, L0777: 4, L0753: 4, L0588: 4, H0046: 3, L0766: 3, H0313: 2, L0374: 2, L0764: 2, L0773: 2, L0776: 2, H0659: 2, L0748: 2, L0752: 2, L0591: 2, H0542: 2, T0002: 1, S0040: 1, S0212: 1, H0663: 1, S0418: 1, S0376: 1, S0045: 1, H0351: 1, H0497: 1, H0263: 1, H0123: 1, S0003: 1, H0615: 1, H0068: 1, H0090: 1, H0264: 1, H0538: 1, S0002: 1, S0426: 1, H0529: 1, L0769: 1, L0372: 1, L0642: 1, L0662:	6p22	248611	103-130, 75-91

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847	HE8FA47	874915	857	1011 - 235	2262	Ser-59 to Trp-77, Lys-143 to Asp-150, Tyr-254 to Lys-259.  AR033: 10, AR104: 9, AR096: 8, AR052: 8, AR060: 8, AR089: 7, AR053: 7, AR055: 6, AR039: 4, AR061: 3 L0779: 9, L0755: 6, L0766: 5, L0748: 5, L0776: 4, H0013: 3, L0747: 3, L0777: 3, L0758: 3, L0770: 2, L0771: 2, L0775: 2, L0752: 2, H0543: 2, L0005: 1, S0358: 1, S0376: 1, S0046: 1, H0331: 1, H0486: 1, L0105: 1, H0014: 1, H0068: 1, H0616: 1, L0769: 1, L0772: 1, L0663: 1, L0664: 1, L0438: 1, H0658: 1, H0672: 1, H0555: 1, L0439: 1, L0740: 1, L0749: 1, L0731: 1, L0757: 1, L0759: 1, H0667: 1, H0423: 1, H0422: 1 and L0465: 1.			103-137, 80-105, 165-184, 221-241, 195-211

848	HMTME42	874948	858	38 - 547	2263	Glu-4 to Ala-10, Glu-24 to Glu-30, Glu-34 to Lys-43, Gly-69 to Cys-78, Asn-127 to Glu-132, Arg-145 to Phe-150.	AR039: 1, AR053: 1, AR033: 1, AR096: 1, AR052: 1, AR104: 1, AR089: 1, AR061: 1, AR060: 1, AR055: 0 H0031: 2, S0126: 2, L0748: 2, H0624: 1, H0341: 1, S0282: 1, S0046: 1, H0369: 1, H0431: 1, H0244: 1, T0082: 1, H0012: 1, H0266: 1, H0615: 1, H0039: 1, H0032: 1, H0090: 1, H0551: 1, S0002: 1, H0529: 1, L0794: 1, L0766: 1, L0791: 1, H0144: 1, H0520: 1, H0525: 1, H0436: 1, S0031: 1, L0592: 1, L0485: 1, H0665: 1 and H0543: 1.			76-93
849	HRADL60	874960	859	194 - 1183	2264	Met-22 to Arg-28.	AR060: 2, AR055: 2, AR033: 2, AR089: 2, AR096: 1, AR061: 1, AR052: 1, AR104: 0, AR039: 0, AR053: 0 L0777: 12, L0766: 9, L0803: 6, L0748: 5, L0752: 5, L0758: 5, L0759: 5, L0666: 4, L0794: 3, L0805: 3, L0743: 3, L0747: 3, S0222: 2, H0457: 2, S0003: 2, L0649: 2, L0804: 2,			130-146, 208-225, 1-17, 183- 199

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850	HWLMB5 5	875096	860	231 - 947	2265	Ser-69 to Asp-76, Pro-126 to Gly-131, Asp-137 to Arg-144.	AR039: 1, AR089: 1, AR061: 1, AR104: 1, AR060: 1, AR096: 1, AR033: 1, AR055: 0,	89-105, 13-29

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851	HUSGZ51	875230	861	9 - 1262	2266	Ile-43 to Arg-50, Phe-75 to Pro-83, Leu-109 to Val-116, Ile-122 to Thr-127, Pro-137 to Gly-149, Arg-184 to Gly-213, Lys-221 to Glu-228.  AR033: 13, AR053: 11, AR052: 10, AR089: 10, AR055: 7, AR060: 5, AR061: 5, AR096: 5, AR039: 4, AR104: 1 H0556: 10, L0748: 8, H0620: 7, L0747: 7, H0265: 5, L0637: 5, H0013: 4, H0551: 4, L0776: 4, L0663: 4, L0596: 4, H0622: 3, H0617: 3, L0772: 3, L0766: 3, S0126: 3, L0751: 3, L0752: 3, L0757: 3, S0031: 3, L0593: 3, H0657: 2, S0360: 2, S0222: 2, T0115: 2, H0009: 2, L0471: 2, H0594: 2, H0288: 2, H0039:			249-265

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852	HWDAN8 6	875249	862	891 - 1205	2267	AR052: 9, AR033: 8, AR055: 7, AR089: 7, AR096: 6, AR053: 6, AR060: 5, AR039: 5, AR104: 5, AR061: 4 L0769: 7, L0754: 7, L0777: 7, H0521: 5, L0809: 4, L0751: 4, H0556: 3, L0764: 3, L0771: 3, L0776: 3, H0555: 3, L0439: 3, H0624: 2, H0171: 2, S0442: 2, S0408: 2, H0318: 2, L0163: 2, H0673: 2, H0038: 2, S0142: 2, L0766: 2, H0539: 2, L0748: 2, L0750: 2, L0756: 2, L0731: 2, H0445: 2, H0265: 1, H0685: 1, H0717: 1, H0295: 1,	19q13	109560, 205900, 600652, 600757	55-71, 23- 39



853	HEATS83	875269	863	126 -	2268	<p>                     H0294: 1, H0657: 1, H0663: 1, S0358: 1, S0376: 1, H0580: 1, S0045: 1, L0717: 1, H0549: 1, S0222: 1, H0601: 1, H0600: 1, H0592: 1, H0574: 1, H0559: 1, H0486: 1, T0040: 1, H0069: 1, S0010: 1, H0052: 1, H0085: 1, L0040: 1, H0327: 1, H0150: 1, H0620: 1, H0024: 1, H0266: 1, T0006: 1, H0644: 1, S0366: 1, H0135: 1, H0090: 1, H0059: 1, L0351: 1, H0494: 1, S0438: 1, H0647: 1, H0529: 1, L0763: 1, L5565: 1, L0372: 1, L0644: 1, L0773: 1, L0662: 1, L0768: 1, L0389: 1, L0805: 1, L0542: 1, L0783: 1, L0545: 1, L0792: 1, L0664: 1, S0374: 1, H0547: 1, H0658: 1, S0152: 1, H0696: 1, S0188: 1, S0406: 1, S0037: 1, S0027: 1, L0744: 1, L0745: 1, L0746: 1, L0749: 1, L0753: 1, L0758: 1, H0444: 1, L0603: 1, S0026: 1 and H0506: 1.                 </p>			58-74
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854	HBION06	875295	864	774 - 1532	2269 Asn-18 to Cys-29, Tyr-51 to Tyr-59, Asp-113 to Gly-120, Ala-125 to Gly-130, Ala-212 to Ala-224.	AR052: 28, AR053: 25, AR089: 10, AR055: 8, AR096: 8, AR033: 6, AR060: 4, AR039: 3, AR061: 3, AR104: 1 L0761: 8, L0806: 5, H0593: 5, H0436: 5, H0581: 4, H0052: 4, L0766: 4, H0521: 4, L0745: 4, L0731: 4, L0759: 4, S0356: 3, L0600: 3, H0624: 2, H0713: 2, H0333: 2, H0618: 2, H0546: 2, H0545: 2, H0457: 2, H0617: 2, H0606: 2, H0100: 2, L0770: 2, L0764: 2, L0774: 2, L0775: 2, L0653: 2, L0659: 2, L0547: 2, L0809: 2, L0666: 2, H0672: 2, H0539: 2, H0522: 2, L0751: 2, L0747: 2, L0750: 2, L0752: 2, L0757: 2, H0543: 2, H0583: 1, H0341: 1, H0484: 1, H0669: 1, H0306: 1, H0458: 1, S0418: 1, S0420: 1, H0675:			148-164, 178-194, 61-77

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855	HAP0057	875330	865	41 - 1363	2270	Thr-94 to Ala-102.	AR052: 7, AR096: 6, AR061: 5, AR089: 5, AR053: 5, AR055: 4, AR060: 4, AR033: 4,	125-156, 358-387, 215-247, 68-90,	

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856	HCROG59	875405	866	198 - 581	2271	Met-1 to Leu-8.  AR060: 3, AR089: 2, AR096: 2, AR053: 2, AR061: 2, AR033: 2, AR055: 2, AR039: 1, AR052: 1, AR104: 1 L0803: 5, L0777: 5, H0549: 3, H0150: 3, L0774: 3, L0809: 3, L0731: 3, H0662: 2, H0251: 2, L0769: 2, L0764: 2, L0648: 2, L0805: 2, L0746: 2, L0750: 2, L0779: 2, H0484: 1, S0356: 1, L0717: 1, H0550: 1, S0280: 1, T0082: 1, H0123: 1, H0024: 1, H0328: 1, H0644: 1, H0068: 1, L0794: 1, L0659: 1, H0693: 1, H0547: 1, H0689: 1, H0658: 1, H0696: 1, S0146:	17q23	106180, 138700, 139250, 150200, 154275, 176960, 249000, 253250	107-128

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857	HDTBI01	875452	867	86 - 421	2272	Arg-4 to Phe-9.	AR052: 220, AR053: 179, AR096: 154, AR089: 80, AR039: 52, AR055: 50, AR061: 39, AR060: 28, AR033: 28, AR104: 20 H0486: 1, L0775: 1, H0631: 1, L0749: 1 and L0755: 1.				83-103, 51-67	
858	HHFY07	875510	868	82 - 552	2273	Glu-43 to Lys-51, Lys-94 to Ser-99.	AR033: 4, AR060: 2, AR089: 2, AR061: 1, AR096: 1, AR055: 1, AR039: 0, AR053: 0, AR104: 0, AR052: 0 L0777: 5, L0803: 4, H0539: 3, H0521: 3, L0439: 3, L0755: 3, L0731: 3, S0420: 2, H0619: 2, H0421: 2, S0049: 2, H0617: 2, L0640: 2, L0794: 2, L0658: 2, H0693: 2, S0126: 2, L0748: 2, L0747: 2, L0749: 2, L0759: 2, L0588: 2, L0601: 2, H0294: 1, H0650: 1, H0484: 1, H0306: 1, S0356: 1, S0442: 1, S0358: 1, S0007: 1, L0717: 1,				125-153	

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859	HOFMV44	875558	869	212 - 1138	2274	Arg-88 to Trp-97, Ser-106 to Ser-115, Gly-130 to Tyr-137, Pro-146 to Trp-151, Val-187 to Ser-196, Ile-234 to Val-246, Pro-249 to Thr-255, Thr-280 to Ser-288.	AR096: 3, AR052: 3, AR033: 2, AR089: 2, AR053: 2, AR055: 2, AR060: 1, AR061: 1, AR104: 1, AR039: 0 H0556: 2, H0305: 2, H0589: 2, S0356: 1, S0132: 1, H0415: 1, H0635: 1, S6028: 1, H0598: 1, H0591: 1, H0494: 1, S0002: 1, L0766: 1, L0803: 1, H0539: 1, L0740: 1 and L0777: 1.			205-224, 161-177, 61-77, 114-130, 21-37

860	HSLJN60	875559	870	51 - 392	2275	Pro-107 to Asn-114.	AR055: 11, AR052: 6, AR061: 5, AR089: 5, AR060: 5, AR096: 4, AR033: 4, AR053: 4, AR039: 3, AR104: 1, H0031: 2, L0731: 2, L0599: 2, H0052: 1, H0263: 1, S0250: 1, H0606: 1, L0055: 1, H0169: 1, H0560: 1, H0509: 1, L0644: 1, L0766: 1, L0661: 1, L0526: 1, L0666: 1, S0380: 1, S0390: 1, L0779: 1, L0608: 1 and S0462: 1.			40-61, 64-80
861	HWHGQ4 4	875575	871	240 - 662	2276	Pro-63 to Cys-69.	AR039: 2, AR033: 2, AR089: 1, AR061: 1, AR052: 1, AR060: 1, AR096: 0, AR055: 0, AR104: 0, AR053: 0, L0758: 6, L0743: 5, S0366: 4, L0770: 4, L0662: 4, H0253: 3, H0591: 3, L0749: 3, L0779: 3, L0731: 3, H0656: 2, S0360: 2, H0586: 2, H0270: 2, H0052: 2, H0009: 2, L0766: 2, L0776: 2, S0328: 2, L0747: 2, L0605: 2, L0485: 2, S0114: 1, H0650: 1, H0657: 1, S0116: 1, S0001: 1,	17		45-63, 88-104



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862	HCQDA63	875590	872	758 - 1150	2277	Cys-107 to Pro-113.	AR052: 36, AR053: 21, AR055: 11, AR033: 11, AR060: 10, AR039: 10, AR104: 10, AR096: 10, AR089: 7, AR061: 6	66-86, 46-62	

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									1, T0068: 1, H0547: 1, H0670: 1, H0672: 1, H0522: 1, H0436: 1, L0439: 1, L0786: 1, L0780: 1, H0542: 1, H0543: 1 and S0424: 1.			
865	HWLMC4 9	875704	875	176 - 490	2280	Set-45 to Gly-51.	AR033: 10, AR089: 7, AR053: 6, AR061: 6, AR096: 6, AR055: 5, AR039: 5, AR052: 5, AR060: 4, AR104: 2 L0748: 2, S0376: 1, H0611: 1, H0036: 1, H0318: 1, H0052: 1 and L0766: 1.				83-105, 26-42	
866	HFCDP47	875724	876	279 - 1133	2281	Asn-84 to Ser-89.	AR053: 16, AR052: 13, AR089: 12, AR055: 12, AR033: 10, AR104: 9, AR039: 9, AR096: 9, AR060: 6, AR061: 6 S0356: 1 and H0009: 1.				59-77, 10- 27, 91- 107, 35-51	
867	HCRNJ24	875794	877	71 - 721	2282	Tyr-16 to Arg-23.	AR052: 4, AR096: 4, AR053: 3, AR033: 3, AR089: 3, AR060: 2, AR055: 2, AR104: 1, AR061: 1, AR039: 1 L0766: 4, S0356: 3, H0083: 2, H0266: 2, H0031: 2, L0666: 2, L0731: 2, H0543: 2, H0395: 1, S0040: 1, S0444: 1, S0045: 1,				183-203, 104-124, 132-148	

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868	HCRNT27	875817	878	50 - 556	2283	Ser-13 to Ile-22, Asn-54 to Lys-65, Ser-78 to Lys-93, Gly-146 to Pro-163.	AR039: 7, AR104: 5, AR053: 5, AR052: 5, AR089: 4, AR096: 4, AR060: 3, AR033: 3, AR061: 1, AR055: 0 S0356: 2, L0747: 2, L0758: 2, H0341: 1, H0125: 1, H0581: 1, H0052: 1, S0003: 1, L0373: 1, L0662: 1, L0658: 1, H0547: 1, H0519: 1, L0777: 1 and L0604: 1.			127-143, 33-49
869	HCQCC37	875825	879	144 - 497	2284	Glu-19 to Gln-26, Asn-28 to Asn-33, Met-65 to Asn-71, Val-75 to Thr-87.	AR055: 8, AR053: 4, AR089: 4, AR052: 4, AR061: 4, AR060: 4, AR096: 4, AR033: 3, AR104: 1, AR039: 0			86-102



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872	HDABX38	875997	882	172 - 975	2287	Glu-27 to Ser-34, Arg-106 to Asn-122, Arg-154 to Lys-163, Arg-214 to Tyr-225.	AR039: 17, AR053: 16, AR033: 12, AR052: 12, AR104: 12, AR096: 11, AR060: 10, AR055: 10, AR089: 9, AR061: 4, S0354: 1, H0497: 1, H0263: 1, H0551: 1, L0475: 1, H0547: 1, H0521: 1 and H0631: 1.				129-151, 185-201
873	HETJZ14	876053	883	2790 - 1531	2288	Tyr-57 to Gly-66, Asp-91 to Lys-101, Val-131 to Gly-137, Asn-146 to His-152, Phe-200 to Arg-209, Leu-217 to Cys-222, Pro-326 to Asn-332, Lys-360 to Phe-375, Val-397 to Ile-405.	AR055: 6, AR061: 6, AR033: 5, AR060: 4, AR052: 4, AR053: 3, AR089: 3, AR096: 3, AR104: 3, AR039: 2, L0766: 14, H0423: 9, L0659: 8, H0170: 6, H0657: 6, H0624: 4, S0420: 4, H0486: 4, H0013: 4, L0794: 4, L0666: 4, S0328: 4, H0521: 4, L0754: 4, L0731: 4, S0418: 3, S0356: 3,				303-322, 229-245, 154-170, 248-264

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874	HFCEB73	876111	884	217 - 1341	2289	Ala-17 to Asp-23, Pro-45 to Thr-53, Pro-55 to Glu-63, Trp-103 to Pro-117, Glu-198 to Tyr-209, Arg-257 to Thr-266, Pro-322 to Gly-328.	L0805: 1, L0655: 1, L0656: 1, L0647: 1, L0367: 1, L0663: 1, L0664: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, H0690: 1, H0435: 1, H0659: 1, H0660: 1, H0648: 1, H0518: 1, S0152: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0780: 1, H0668: 1, S0242: 1, S0276: 1, H0543: 1, S0424: 1 and S0452: 1.			233-256, 136-160, 166-192, 337-355, 302-318, 211-227, 270-286
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875	H2LAJ32	876142	885	208 - 561	2290				AR052: 5, AR055: 5, AR053: 4, AR060: 4, AR039: 3, AR033: 3, AR096: 3, AR061: 3, AR089: 3, AR104: 2, T0115: 1, H0046: 1, H0457: 1 and L0520: 1.				34-65
876	HTPIQ89	876198	886	219 - 575	2291	Met-1 to Thr-12.			AR055: 12, AR089: 7, AR033: 7, AR060: 6, AR052: 6, AR061: 6, AR053: 4, AR104: 4, AR039: 4, AR096: 2, H0039: 1, H0622: 1, L0764: 1, L0659: 1, L0809: 1, S0406: 1 and H0506: 1.				76-95, 46-64
877	HTDAI12	876209	887	298 - 870	2292	Gly-100 to Arg-106, Ser-111 to Cys-116.			AR089: 6, AR096: 6, AR033: 4, AR052: 4, AR053: 3, AR060: 3, AR039: 2, AR104: 2,				129-156

							AR055: 2, AR061: 1 S0360: 3, S0354: 2, H0637: 2, S0298: 1, H0427: 1, H0477: 1 and H0445: 1.			
878	HWLGV14	876226	888	169 - 978	2293	Arg-16 to Thr-21.	AR061: 45, AR060: 10, AR096: 4, AR039: 4, AR089: 3, AR033: 3, AR055: 2, AR052: 2, AR104: 1, AR053: 0 S0354: 1 and L0748: 1.	198-229, 63-92, 126-151, 97-115		
879	HCQBI31	876372	889	58 - 408	2294	Lys-11 to Glu-16.	AR039: 19, AR053: 16, AR055: 15, AR033: 14, AR089: 13, AR096: 11, AR060: 11, AR052: 11, AR104: 10, AR061: 7 L0794: 4, H0263: 1, H0327: 1, L0763: 1, L0666: 1, L0663: 1, L0438: 1, S0378: 1, L0747: 1 and L0759: 1.	71-87, 18- 34, 93-109		
880	HE9RM22	876418	890	322 - 660	2295		AR061: 3, AR055: 3, AR060: 2, AR033: 2, AR104: 2, AR096: 1, AR053: 1, AR089: 1, AR052: 0, AR039: 0 L0748: 5, L0438: 3, S0360: 2, L0792: 2, L0439: 2, L0749: 2, L0759: 2, S0356: 1, H0333: 1, H0009:	41-66, 13- 29		

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883	HOBAE30	876533	893	388 - 699	2298	Lys-25 to Lys-31, His-36 to Gln-42, Gln-84 to Cys-90.	AR096: 2, AR089: 1, AR053: 1, AR033: 1, AR060: 1, AR061: 1, AR039: 0, AR055: 0, L0754: 8, L0803: 6, L0748: 4, L0766: 3, S0376:	62-85, 1-23

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884	HDABK73	876546	894	508 - 2508	2299	Glu-6 to Thr-20, Glu-63 to Met-74, Gln-79 to Thr-87, Ser-90 to Glu-105, Pro-113 to Glu-136, Phe-232 to Lys-249.	AR053: 12, AR052: 9, AR096: 8, AR089: 5, AR039: 4, AR055: 4, AR033: 3, AR060: 3, AR061: 3, AR104: 2 H0497: 1, H0263: 1 and L0601: 1.			144-161, 182-198
885	HEMHA04	876674	895	529 -	2300	Pro-4 to Ser-9.	AR033: 9, AR052: 8,			81-97, 11-

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886	IHHEOX44	876676	896	151 - 2649	2301	Met-1 to Gln-8, Val-18 to Lys-36, Glu-42 to Thr-49, Pro-51 to Asn-58.	AR104: 7, AR039: 6, AR096: 6, AR033: 5, AR052: 5, AR060: 4, AR089: 4, AR061: 3, AR053: 3, AR055: 2 L0779: 6, L0794: 5, L0439: 4, L0777: 4, L0758: 4, H0051: 2, H0040: 2, L0803: 2, L0775: 2, L0659:			727-748, 695-715, 222-240, 543-560, 676-692, 334-350, 521-537, 417-433, 655-671,



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887	HWBBS84	876726	897	242 - 814	2302	Tyr-14 to Gly-19, Lys-26 to Tyr-31, Asp-36 to Asp-41, Leu-68 to Glu-73, Pro-161 to Gly-168.	AR039: 17, AR104: 11, AR096: 11, AR089: 10, AR033: 8, AR053: 8, AR060: 7, AR052: 5, AR055: 5, AR061: 3 H0039: 3, H0580: 2, H0263: 2, S0430: 1, S0358: 1, H0250: 1, T0103: 1,	83-110, 43-59	

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888	HWLP86	876744	898	111 - 608	2303	Thr-91 to Ser-97, Thr-108 to Tyr-119, Gln-142 to Glu-157.	AR039: 6, AR096: 3, AR060: 3, AR052: 3, AR053: 2, AR061: 2, AR104: 2, AR089: 1, AR055: 1, AR033: 1 L0775: 5, L0772: 3, S0358: 2, L0773: 2, S0356: 1, H0052: 1, H0596: 1, H0014: 1 and L0764: 1.		115-143, 72-91, 6-29
889	HSBAZ37	876799	899	1192 - 671	2304	Arg-45 to Gly-55, Asp-143 to Arg-150.	AR033: 37, AR053: 35, AR039: 33, AR055: 33, AR089: 32, AR052: 32, AR104: 30, AR061: 24, AR060: 20, AR096: 20		84-114, 113-142, 150-172, 55-74, 26-43, 77-93
890	HOSXA83	877015	900	802 - 395	2305		AR055: 8, AR060: 7, AR052: 7, AR096: 6, AR089: 6, AR053: 5, AR033: 5, AR039: 5, AR104: 5, AR061: 3 S0360: 3, L0758: 2, L0596: 2, L0485: 2, L0362: 2, S0011: 2, S0021: 2, H0656: 1, S0116: 1, S0418: 1, S0045: 1, S0476: 1,		111-133, 22-38

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891	HDQHQS1	877101	901	584 - 1168	2306	Asp-3 to Cys-9, Gly-68 to Leu-74, Lys-109 to Asn-132.  AR055: 1, AR089: 1, AR060: 1, AR061: 0, AR096: 0, AR052: 0, AR104: 0, AR039: 0, AR033: 0, AR053: 0 H0521: 3, H0124: 2, H0494: 2, S0040: 1, S0430: 1, H0650: 1, H0656: 1, S0356: 1, S0358: 1, H0645: 1, H0586: 1, H0587: 1, H0590: 1, L0045: 1, H0316: 1, H0598: 1, S0036: 1, H0591: 1, H0641: 1, L0766: 1, H0701: 1, H0689: 1, H0672: 1, L0439: 1 and L0596: 1.			10-40, 75- 104, 48- 64, 135- 151, 167- 183
892	HWAAAB46	877162	902	30 - 875	2307	Met-1 to Gly-8, Asn-38 to Leu-44, Arg-46 to Gly-51, Gln-120 to Pro-128, Met-168 to Pro-174.  AR096: 11, AR033: 11, AR104: 10, AR052: 9, AR053: 8, AR060: 8, AR089: 8, AR039: 6, AR055: 2, AR061: 2 L0766: 6, L0748: 5,			181-198, 142-158, 68-84, 206-222, 96-112

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893	HOGDT09	877219	903	2422 - 854	2308	Lys-60 to Ala-79, Thr-88 to Lys-101, Leu-106 to Gln-116.	AR052: 8, AR053: 5, AR096: 5, AR039: 3, AR060: 3, AR089: 3, AR033: 3, AR104: 3, AR055: 1, AR061: 1, L0766: 5, L0777: 5, L0803: 3, H0422: 3, H0624: 2, S0003: 2, S0214: 2,	41-57, 152-168	

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894	HTEGT79	877252	904	62 - 1078	2309	Met-1 to Lys-23, Val-75 to Ser-81, Ser-126 to Trp-132, Leu-165 to Ala-178.	AR033: 6, AR060: 6, AR052: 5, AR089: 5, AR055: 5, AR053: 5, AR096: 5, AR104: 3, AR061: 3, AR039: 1 L0794: 7, L0754: 6, L0439: 4, L0777: 4, L0752: 4, L0758: 4, H0624: 3, L0766: 3, L0803: 3, H0521: 3, H0171: 2, S0420: 2, H0046: 2, S0214: 2, H0090: 2, H0494: 2, L0640: 2,	41-60, 319-335, 296-312

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895	HOEJS41	877267	905	10 - 591	2310	Gly-34 to Leu-41, Ala-54 to Lys-60,	AR096: 5, AR033: 3, AR039: 2, AR089: 1,	72-93, 128-144,	

						Phe-100 to Ala-111, Ser-145 to Asn-154.	AR053: 1, AR061: 1, AR055: 1, AR060: 1, AR104: 0, AR052: 0 L0751: 5, H0556: 4, L0741: 4, L0779: 3, L0777: 3, H0617: 2, L0789: 2, S0126: 2, H0265: 1, S0360: 1, S0045: 1, S0278: 1, H0545: 1, H0009: 1, H0620: 1, H0510: 1, S0214: 1, H0038: 1, H0412: 1, H0413: 1, H0059: 1, H0494: 1, H0641: 1, L0770: 1, L0772: 1, L0800: 1, L0764: 1, L0794: 1, L0804: 1, L0659: 1, L0518: 1, L0809: 1, H0436: 1 and L0759: 1.			155-171, 173-189
896	HBXDI92	877294	906	184 - 918	2311		AR033: 2, AR096: 2, AR039: 1, AR089: 1, AR061: 1, AR060: 1, AR055: 0, AR052: 0, AR053: 0, AR104: 0 H0551: 5, H0521: 4, S0007: 3, H0090: 3, S0038: 3, L0519: 3, S0126: 3, S0027: 3, L0439: 3, S0212: 2, S0282: 2, H0550: 2, H0492: 2, H0373: 2, H0553: 2, S0036: 2, L0565: 2, H0522: 2, L0599: 2, L0366:			221-241, 72-88

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897	HHFMH12	877387	907	299 - 2161	2312	Gly-3 to Val-12, Gln-24 to Ile-30, Asp-44 to Ala-51, Lys-57 to Arg-62, Thr-114 to Cys-121, Arg-157 to Tyr-162, Ser-166 to Asp-175,	AR055: 5, AR096: 3, AR060: 3, AR033: 2, AR061: 2, AR052: 2, AR089: 2, AR053: 1, AR104: 1, AR039: 1 L0601: 9, L0769: 8, L0770: 6, L0659: 6, S0356:	123-154, 77-96, 240-256	



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898	HDPFP36	877396	908	388 - 804	2313	AR052: 2, AR053: 2, AR055: 1, AR096: 1, AR089: 1, AR104: 1, AR033: 0, AR061: 0, AR060: 0, AR039: 0 L0740: 10, L0766: 9, L0777: 8, L0747: 7, L0803: 6, L0439: 6, L0794: 5, S0126: 5, H0265: 4, L0748: 4, L0749: 4, L0596: 4, H0580: 3, H0591: 3, L0774: 3, L0755: 3, L0757: 3, L0758: 3, H0305: 2, T0039:			123-139, 105-121, 3-19

899	HDPWZ46	877573	909	2684 -	2314	Asp-114 to Val-130,	2, L0471: 2, S0250: 2, H0622: 2, S0306: 2, L0763: 2, L0662: 2, L0809: 2, H0547: 2, H0521: 2, L0754: 2, L0756: 2, L0752: 2, L0590: 2, S0192: 2, H0543: 2, H0556: 1, H0686: 1, S0040: 1, S0218: 1, H0656: 1, H0662: 1, S0358: 1, S0360: 1, S0007: 1, S0046: 1, H0261: 1, H0013: 1, H0635: 1, H0581: 1, H0052: 1, H0544: 1, H0546: 1, H0510: 1, H0267: 1, H0284: 1, S0022: 1, H0328: 1, H0615: 1, H0428: 1, H0031: 1, H0090: 1, H0616: 1, H0623: 1, L0564: 1, T0042: 1, H0494: 1, S0144: 1, S0210: 1, L0598: 1, L0369: 1, L0770: 1, L0761: 1, L0764: 1, L0768: 1, L0804: 1, L0775: 1, L0806: 1, L0657: 1, L0513: 1, L0541: 1, L0787: 1, L0788: 1, L0663: 1, L0664: 1, H0144: 1, S3014: 1, L0744: 1, L0750: 1, L0779: 1 and L0731: 1.			337-363,
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1431	Thr-182 to Lys-187, Lys-266 to Gly-271.	AR033: 1, AR104: 1, AR055: 1, AR061: 1, AR060: 0, AR039: 0, AR052: 0, AR053: 0 L0805: 53, L0776: 53, L0766: 8, L0748: 8, L0769: 7, L0758: 6, L0655: 5, H0318: 4, H0083: 4, H0424: 4, L0764: 4, L0439: 4, L0740: 4, L0749: 4, H0543: 4, L0770: 3, L0761: 3, L0646: 3, L0806: 3, L0783: 3, L0809: 3, L0666: 3, L0756: 3, L0777: 3, L0752: 3, H0650: 2, H0635: 2, L0157: 2, H0620: 2, S0344: 2, S0426: 2, L0667: 2, L0772: 2, L0663: 2, L0664: 2, L0665: 2, L0751: 2, L0747: 2, L0750: 2, L0608: 2, H0422: 2, H0624: 1, H0185: 1, H0556: 1, T0002: 1, H0656: 1, L0760: 1, H0341: 1, S0358: 1, H0637: 1, H0580: 1, L0103: 1, H0645: 1, H0393: 1, H0610: 1, H0455: 1, H0333: 1, H0581: 1, H0457: 1, H0009: 1, H0178: 1, H0050: 1, H0051: 1, S0388: 1, H0267:	11-32, 301-317, 54-70
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900	HFPBS73	878090	910	171 - 983	2315	Ala-8 to Asn-15, Asp-142 to Gly-147, Thr-212 to Val-218.	AR055: 7, AR033: 6, AR061: 4, AR060: 4, AR104: 3, AR089: 3, AR096: 3, AR053: 3, AR052: 2, AR039: 1 H0254: 2, S0045: 2, S0028: 2, H0255: 1, S0046: 1, S0222: 1, L0477: 1, H0042: 1, H0617: 1, S0126: 1, S3012: 1 and S0031: 1.		12-41, 41- 75, 226- 242, 64-80
901	HBBBE08	878159	911	593 - 925	2316		AR033: 6, AR096: 2, AR060: 2, AR089: 2,		42-61

						AR061: 1, AR039: 0, AR055: 0, AR104: 0, AR052: 0 L0756: 6, L0438: 5, H0052: 4, L0766: 4, L0439: 4, H0550: 3, L0774: 3, L0805: 3, H0580: 2, S0222: 2, H0486: 2, H0013: 2, H0457: 2, H0620: 2, L0662: 2, L0776: 2, H0689: 2, L0744: 2, L0740: 2, L0747: 2, H0149: 1, H0265: 1, H0657: 1, S0001: 1, S0356: 1, S0442: 1, S0360: 1, H0208: 1, H0351: 1, H0411: 1, H0369: 1, L0444: 1, H0249: 1, L0623: 1, H0156: 1, T0082: 1, S0010: 1, H0374: 1, H0009: 1, L0163: 1, H0201: 1, T0010: 1, H0674: 1, S0366: 1, S0036: 1, H0059: 1, S0038: 1, L0375: 1, L0517: 1, L0783: 1, L0809: 1, L0789: 1, L0663: 1, H0651: 1, L0748: 1, L0745: 1, L0779: 1, L0752: 1, L0731: 1 and S0434: 1.				
902	HNFB64	878172	912	623 - 1813	2317	Arg-40 to Thr-46, Phe-92 to Gly-101,	AR039: 41, AR053: 28, AR104: 27, AR096: 26,			7-38, 367- 389, 255-

						Pro-122 to Arg-129, Thr-179 to Arg-193.	AR089: 23, AR033: 21, AR055: 20, AR052: 19, AR060: 18, AR061: 9 H0521: 6, H0457: 5, H0622: 5, L0439: 4, H0255: 3, H0253: 3, S0152: 3, H0657: 2, S0420: 2, S0354: 2, H0550: 2, H0586: 2, H0587: 2, H0036: 2, H0618: 2, H0617: 2, H0135: 2, H0040: 2, H0694: 2, S0406: 2, H0667: 2, H0583: 1, H0650: 1, H0341: 1, H0484: 1, H0638: 1, H0580: 1, S0007: 1, H0393: 1, H0592: 1, H0575: 1, H0052: 1, H0266: 1, H0271: 1, H0416: 1, S0022: 1, H0688: 1, H0039: 1, H0644: 1, L0142: 1, H0181: 1, S0366: 1, H0488: 1, H0487: 1, H0059: 1, S0038: 1, L0766: 1, L0775: 1, L0438: 1, H0547: 1, H0519: 1, H0593: 1, H0666: 1, H0539: 1, H0436: 1, H0478: 1, S3012: 1, L0742: 1, L0758: 1, S0434: 1, H0543: 1 and S0460: 1.			271, 194- 210
903	HIBIMN78	878206	913	1287 - 46	2318	Pro-12 to His-17, Arg-53 to Ala-66,	AR104: 3, AR096: 2, AR052: 2, AR033: 2,			159-181, 341-360

						Ser-83 to Gly-93, Asp-96 to Leu-106, Lys-203 to Gly-211, Ala-214 to Pro-219, Ser-246 to Lys-251, Arg-262 to Gly-270.	AR089: 2, AR053: 2, AR039: 2, AR055: 2, AR060: 1, AR061: 1 L0439: 10, L0758: 7, L0774: 5, S0404: 5, H0436: 5, L0731: 5, H0445: 5, L0769: 4, L0662: 4, L0666: 4, L0600: 4, H0716: 3, S0354: 3, H0581: 3, L0766: 3, L0776: 3, L0659: 3, S0406: 3, H0717: 2, H0294: 2, H0549: 2, H0586: 2, H0486: 2, H0327: 2, H0546: 2, H0457: 2, H0009: 2, L0471: 2, H0617: 2, H0551: 2, L0761: 2, L0800: 2, L0764: 2, L0768: 2, L0775: 2, L0809: 2, L0565: 2, S0380: 2, L0743: 2, L0748: 2, L0740: 2, L0779: 2, L0752: 2, L0759: 2, H0707: 2, L0592: 2, L0599: 2, H0341: 1, H0661: 1, H0663: 1, H0306: 1, S0418: 1, S0442: 1, S0358: 1, S0408: 1, S0045: 1, L0717: 1, H0602: 1, H0587: 1, H0427: 1, H0575: 1, H0318: 1, H0196: 1, H0052: 1, H0041: 1, H0354: 1, H0375: 1,			
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						H0266: 1, L0194: 1, L0055: 1, H0708: 1, S0366: 1, S0036: 1, H0264: 1, H0509: 1, S0344: 1, H0538: 1, S0002: 1, S0426: 1, L0763: 1, L0770: 1, L0637: 1, L5575: 1, L0642: 1, L0773: 1, L0648: 1, L0649: 1, L0533: 1, L0805: 1, L0530: 1, L0647: 1, L0790: 1, S0428: 1, S0053: 1, H0701: 1, H0723: 1, S0310: 1, H0547: 1, H0593: 1, H0684: 1, H0658: 1, H0670: 1, H0518: 1, H0521: 1, H0522: 1, H0696: 1, H0555: 1, H0627: 1, H0631: 1, S3012: 1, S0027: 1, L0741: 1, L0747: 1, L0750: 1, L0786: 1, L0777: 1, L0755: 1, H0665: 1, S0194: 1, H0423: 1 and H0506: 1.			
904	HHKKH05	878208	914	16 - 1407	2319	Lys-24 to Arg-30, Glu-76 to Arg-82, Ala-246 to Glu-256, Thr-261 to Gly-266, Thr-284 to Glu-290, Gly-323 to Tyr-329, Phe-427 to Lys-433, Asn-435 to Trp-453.	AR033: 2, AR096: 2, AR089: 2, AR060: 2, AR061: 2, AR052: 1, AR055: 1, AR039: 0, AR053: 0, AR104: 0, H0556: 10, L0749: 7, L0758: 6, L0803: 5, L0748: 4, L0439: 4, L0751: 4,		1-23, 136-154, 52-68, 375-391, 99-115

					H0619: 3, L0646: 3, L0764: 3, L0809: 3, L0666: 3, L0777: 3, S0212: 2, S0358: 2, H0331: 2, H0620: 2, T0010: 2, H0038: 2, L0804: 2, L0659: 2, L0383: 2, L0747: 2, L0755: 2, L0757: 2, L0588: 2, L0718: 2, H0265: 1, H0341: 1, H0255: 1, H0661: 1, H0663: 1, S0420: 1, S0444: 1, S0360: 1, H0637: 1, H0580: 1, H0733: 1, H0351: 1, H0549: 1, H0600: 1, H0333: 1, H0632: 1, H0013: 1, H0618: 1, H0253: 1, H0318: 1, H0052: 1, H0571: 1, H0123: 1, H0012: 1, H0266: 1, H0615: 1, H0424: 1, H0628: 1, H0040: 1, H0264: 1, S0438: 1, S0440: 1, H0633: 1, L0763: 1, L0770: 1, L0771: 1, L0773: 1, L0766: 1, L0774: 1, L0653: 1, L0655: 1, L0519: 1, L0789: 1, L0663: 1, L0665: 1, H0144: 1, L0438: 1, H0684: 1, H0659: 1, H0658: 1, S0330: 1, H0539: 1, S0152: 1, S0406: 1, L0752: 1,			
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905	HHAUW8 1	878215	915	167 - 1189	2320	Arg-68 to Thr-75, Arg-91 to Val-104, Pro-203 to Pro-221, Leu-229 to Arg-252, Pro-282 to Gly-295.	AR033: 7, AR104: 6, AR053: 5, AR052: 5, AR039: 4, AR096: 4, AR055: 4, AR060: 3, AR089: 3, AR061: 3 L0769: 5, L0766: 5, L0439: 5, S0358: 4, L0794: 4, L0438: 4, L0777: 4, H0618: 3, H0494: 3, H0561: 3, L0809: 3, H0638: 2, S0418: 2, S0420: 2, H0370: 2, S0049: 2, H0052: 2, H0050: 2, H0012: 2, H0059: 2, S0440: 2, S0002: 2, L0761: 2, L0803: 2, L0805: 2, L0665: 2, H0547: 2, L0742: 2, L0744: 2, L0748: 2, L0779: 2, L0758: 2, L0759: 2, H0556: 1, H0656: 1, H0255: 1, H0458: 1, S0444: 1, H0208: 1, H0393: 1, H0351: 1, H0261: 1, S0220: 1, H0333: 1, H0632: 1, H0581: 1, H0309: 1, H0046: 1, H0150: 1, L0116: 1, H0620: 1, L0163: 1, H0083: 1, H0615: 1, T0023:	L0731: 1, L0608: 1, H0136: 1, H0542: 1, H0543: 1 and H0423: 1.	9q33-q34.1	103000, 114350, 120900, 131195, 146150, 185000, 189980, 223900, 253800, 253800, 268900, 600184, 602575, 602575	176-193, 142-158

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906	HAUBB12	878260	916	144 - 749	2321	Thr-3 to Gln-9. AR053: 747, AR052: 436, AR096: 408, AR033: 219, AR104: 168, AR039: 132, AR089: 99, AR060: 82, AR055: 55, AR061: 30 H0052: 4, S0360: 3, L0662: 2, L0659: 2, H0672: 2, H0295: 1, H0294: 1, S0418: 1, S0442: 1, S0007: 1, S0476: 1, H0559: 1, S0049: 1, H0009: 1, H0563: 1, H0570: 1, H0566: 1, S0440: 1, L0520: 1, L0631: 1, L5575: 1, L0627: 1, L0643: 1, L0648: 1, L0803: 1, L0651: 1, L0805: 1,			43-59



									1, L0743: 1, L0779: 1 and L0780: 1.					
909	HTAFG29	878308	919	1333 - 1707	2324	Pro-100 to Lys-107.	AR061: 2, AR039: 1, AR060: 1, AR089: 0, AR104: 0, AR055: 0 L0804: 5, L0794: 4, S0046: 3, L0769: 3, S0222: 2, H0604: 2, H0553: 2, L0654: 2, L0777: 2, L0780: 2, L0731: 2, L0599: 2, H0265: 1, H0556: 1, T0049: 1, S0444: 1, S0360: 1, L0717: 1, T0039: 1, H0013: 1, H0069: 1, H0635: 1, H0036: 1, H0085: 1, H0271: 1, H0188: 1, H0424: 1, H0628: 1, H0674: 1, H0551: 1, H0494: 1, L0373: 1, L0641: 1, L0764: 1, L0768: 1, L0523: 1, L0806: 1, L0790: 1, L0665: 1, S0374: 1, H0684: 1, H0555: 1, S0390: 1, L0748: 1, L0751: 1, L0747: 1, S0276: 1 and H0422: 1.						70-87, 37-53	
910	HDPCT51	878310	920	315 - 1847	2325	Gly-83 to Ser-92, Tyr-100 to Phe-113, Asp-127 to Asp-138, Asp-194 to Gly-200,	AR039: 33, AR033: 18, AR104: 17, AR053: 15, AR096: 15, AR089: 14, AR055: 13, AR052: 11,							426-452, 226-251, 354-379, 315-334,

					Gln-222 to Ser-227, Gln-476 to Gly-489, Gly-499 to Gln-505.	AR060: 10, AR061: 8 H0424: 7, H0521: 7, H0581: 3, H0033: 3, L0438: 3, H0522: 3, H0549: 2, H0271: 2, H0135: 2, S0040: 1, H0295: 1, S0001: 1, S0046: 1, H0250: 1, S0280: 1, H0575: 1, H0457: 1, H0009: 1, H0123: 1, S0340: 1, H0039: 1, H0405: 1, H0040: 1, H0647: 1, S0002: 1, H0547: 1, H0684: 1, S0152: 1, L0439: 1 and H0543: 1.			3-21, 343- 359, 285- 301, 393- 409	
911	HMACZ08	878313	921	560 - 1174	2326	Phe-16 to Asn-23, Arg-166 to Ser-183, Met-188 to Gln-193.	AR053: 115, AR052: 80, AR096: 71, AR039: 59, AR060: 41, AR089: 40, AR033: 37, AR104: 35, AR055: 29, AR061: 17 S0007: 10, L0748: 7, H0013: 3, S0010: 3, L0771: 3, L0438: 3, L0439: 3, L0591: 3, S0040: 2, S0222: 2, H0156: 2, H0083: 2, H0510: 2, S0003: 2, H0032: 2, L0519: 2, H0521: 2, S0260: 2, L0596: 2, S0276: 2, H0265: 1, H0556: 1, S0134: 1, H0675: 1, S0346: 1, H0196: 1, H0309: 1,	Xp22.1	300075, 300077, 301200, 302350, 306000, 306000, 306100, 307800, 309510, 311770, 312040, 312170, 312700, 313400	108-140, 36-58, 64- 85, 145- 161, 81-97

						H0327: 1, H0530: 1, H0051: 1, H0266: 1, S0314: 1, S0022: 1, H0031: 1, H0553: 1, H0212: 1, H0038: 1, H0380: 1, H0264: 1, H0100: 1, H0509: 1, S0144: 1, L0763: 1, L0372: 1, L0374: 1, L0803: 1, L0775: 1, L0776: 1, S0216: 1, S0148: 1, H0670: 1, H0539: 1, H0518: 1, H0696: 1, S0146: 1, S0406: 1, S0028: 1, L0749: 1, L0779: 1, S0026: 1, S0192: 1 and S0242: 1.			
912	HOHCA01	878348	922	169 - 1824	2327	Leu-2 to Leu-7, Leu-14 to Arg-46, Pro-73 to Arg-80, Ile-100 to Ile-105, Lys-113 to Val-126. AR055: 2, AR060: 1, AR089: 1, AR061: 0, AR096: 0, AR033: 0, AR104: 0, AR053: 0, AR039: 0 H0124: 3, S0280: 2, S0212: 1, H0484: 1, S0356: 1, S0354: 1, H0370: 1, H0618: 1, H0046: 1, H0051: 1, S0250: 1, H0553: 1, H0087: 1, H0551: 1, H0560: 1, H0625: 1, H0561: 1, L0369: 1, H0519: 1, H0593: 1, L0740: 1, S0196: 1 and S0424: 1.			45-74, 395-413, 174-190, 336-352, 275-291, 466-482



913	HTPEF72	878349	923	1399 - 1815	2328	Pro-4 to Pro-11, Pro-37 to Pro-50.	AR089: 17, AR053: 14, AR055: 14, AR052: 14, AR096: 12, AR104: 9, AR033: 8, AR060: 7, AR061: 6, AR039: 5 L0805: 11, L0777: 5, L0776: 4, L0438: 4, H0156: 2, H0318: 2, H0424: 2, S0464: 2, L0659: 2, S0434: 2, S0116: 1, H0661: 1, H0664: 1, S0442: 1, S0360: 1, H0733: 1, S0045: 1, S0046: 1, H0393: 1, H0587: 1, H0042: 1, H0618: 1, H0204: 1, H0565: 1, H0039: 1, H0165: 1, H0090: 1, H0038: 1, T0067: 1, H0647: 1, L0520: 1, L0646: 1, L0662: 1, L0651: 1, L0806: 1, L0658: 1, L5622: 1, L0787: 1, L0791: 1, L0792: 1, L0663: 1, L0664: 1, L0665: 1, H0658: 1, H0660: 1, S0380: 1, L0439: 1, L0747: 1, L0749: 1, L0753: 1, S0260: 1, S0436: 1 and L0584: 1.			74-91, 106-122
914	HDQFU07	878365	924	257 - 1156	2329	Lys-29 to Val-34, Cys-94 to Asp-99, Ser-102 to Val-107,	AR039: 25, AR096: 7, AR060: 5, AR033: 5, AR053: 4, AR052: 3,			1-27, 166- 183, 256- 272, 113-

				Gln-133 to Lys-139.	AR089: 3, AR061: 2, AR104: 2, AR055: 1 S0422: 21, S0408: 9, L0659: 9, S0438: 8, S0354: 6, L0754: 6, S0126: 5, H0543: 5, S0358: 4, S0444: 4, S0406: 4, H0436: 4, L0740: 4, L0777: 4, S0360: 3, H0144: 3, S0374: 3, L0750: 3, L0599: 3, H0170: 2, H0717: 2, S0410: 2, H0587: 2, H0574: 2, H0486: 2, H0575: 2, H0036: 2, S0003: 2, H0622: 2, L0475: 2, H0509: 2, L0667: 2, L0771: 2, L0662: 2, L0766: 2, L0804: 2, L0790: 2, H0710: 2, L0748: 2, L0745: 2, L0749: 2, L0731: 2, S0026: 2, H0422: 2, H0171: 1, H0686: 1, S0040: 1, H0716: 1, L0785: 1, S0212: 1, S0442: 1, H0393: 1, L0717: 1, H0441: 1, H0497: 1, H0427: 1, H0590: 1, S0010: 1, S0346: 1, S0474: 1, H0581: 1, H0050: 1, H0239: 1, H0510: 1, H0266: 1, H0553: 1, H0169: 1, H0264: 1, H0494: 1, S0450:			129
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915	HETBV52	878370	925	25 - 450	2330	Gly-11 to Asp-17, Gly-23 to Asp-41, Met-108 to Gln-116.  AR052: 9, AR033: 8, AR053: 8, AR055: 7, AR060: 6, AR104: 5, AR089: 5, AR096: 5, AR061: 4, AR039: 4, L0509: 18, L0500: 9, L0499: 6, L0493: 6, L0514: 6, L0777: 6, S0358: 4, L0438: 4, H0657: 3, L0794: 3, L0776: 3, L0439: 3, L0747: 3, L0758: 3, H0542: 3, H0716: 2, S0418: 2, L0021: 2, H0551: 2, L0435: 2, S0440: 2, L0763: 2,	16q24.1	256850	82-102

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918	HFCALI9	878432	928	564 - 109	2333	Asp-2 to His-10, Pro-136 to Glu-150.	AR053: 17, AR055: 14, AR096: 10, AR033: 9, AR060: 8, AR039: 8, AR052: 6, AR089: 6, AR104: 6, AR061: 5 L0747: 5, L0750: 5,	43-70, 76- 107, 103- 128, 22-38	

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919	HEOMO40	878455	929	151 - 981	2334	Pro-34 to Pro-40, Pro-160 to Gln-167, Arg-185 to Gly-191, Gln-206 to His-211, Gln-231 to Thr-239.	AR033: 3, AR061: 3, AR060: 3, AR096: 2, AR089: 2, AR055: 1, AR052: 1, AR104: 0 H0457: 10, H0617: 6, H0181: 5, L0748: 5, L0783: 3, L0809: 3, L0777: 3, H0484: 2, H0486: 2, H0087:			127-143, 167-183

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920	HBGQR89	878462	930	95 - 592	2335	Ser-21 to Gly-27.	AR104: 1, AR061: 1, AR089: 1, AR060: 0, AR055: 0, AR039: 0, AR033: 0, AR053: 0, AR052: 0, AR096: 0 H0098: 1, H0617: 1, L0598: 1, L0367: 1 and S0260: 1.			105-144, 27-50, 84- 114, 46- 62, 146- 162
921	HSLHS40	878483	931	121 - 534	2336	Val-131 to Asn-136.	AR052: 10, AR033: 9, AR053: 7, AR096: 7,			31-52, 9- 32, 63-95,



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922	HDPFT14	878510	932	84 - 554	2337	Gly-11 to Glu-16, Cys-52 to His-59, Val-67 to Gln-72.	AR039: 3, AR096: 3, AR052: 3, AR053: 3, AR104: 2, AR060: 2, AR089: 2, AR055: 2, AR033: 2, AR061: 1 H0521: 4, L0803: 3, L0439: 3, S0046: 2, H0488: 2, L0747: 2, L0758: 2, L0759: 2, H0556: 1, H0685: 1, H0657: 1, S0418: 1, S0360: 1, H0632: 1, H0486: 1, L0021: 1, H0618: 1, S0474: 1, H0421: 1, H0457: 1, H0014: 1, H0266: 1, H0622: 1, T0041: 1, H0561: 1, L0770: 1, L0761: 1, L0667: 1, L0372: 1, L0800: 1, L0662: 1, L0794: 1, L0804: 1, L0805: 1, L0789: 1, L0666: 1, H0520: 1, H0659: 1, H0672: 1, H0539: 1, L0740: 1, L0750: 1, L0779: 1, L0777: 1, L0752: 1, L0599: 1, L0603: 1, S0026: 1, H0543: 1 and H0422: 1.			107-135, 73-94
923	HNHFY67	878569	933	660 - 178	2338	Arg-58 to Glu-64, Glu-72 to Lys-77, Glu-149 to Met-156.	AR053: 1, AR055: 1, AR089: 1, AR104: 1, AR033: 1, AR096: 1, AR061: 1, AR060: 0,			113-133, 19-35

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924	HWLLR80	878628	934	52 - 1098	2339	Glu-27 to Gly-33, Pro-87 to Gly-94, Gly-110 to Leu-115, Asn-129 to Asp-134, Asn-148 to Glu-153, Ala-209 to Asp-215, Ser-241 to Ser-251.	AR096: 4, AR089: 3, AR055: 2, AR053: 2, AR060: 2, AR039: 2, AR033: 2, AR052: 2, AR061: 1, AR104: 1 S0358: 1, H0370: 1, H0253: 1, H0547: 1, H0521: 1, L0601: 1 and S0196: 1.			283-306, 36-52
925	HLVYAG35	878700	935	71 - 787	2340	Ala-24 to Asp-31.	AR039: 15, AR096: 8, AR060: 7, AR053: 6, AR089: 6, AR033: 6, AR052: 4, AR055: 3, AR104: 3, AR061: 2 H0046: 1 and H0445: 1.			92-121, 188-206
926	HDPLU91	878742	936	106 - 930	2341	Pro-18 to Val-23, Pro-50 to Ser-60, Gln-97 to Gly-103.	AR089: 13, AR053: 12, AR104: 9, AR052: 9, AR096: 7, AR033: 7,			30-52, 62- 80, 206- 222, 228-

AR055: 6, AR039: 6, AR060: 5, AR061: 4 L0526: 6, L0439: 6, L0666: 4, L0758: 4, L0638: 3, L0655: 3, H0672: 3, L0740: 3, L0754: 3, H0657: 2, H0638: 2, S0418: 2, L0005: 2, S0376: 2, H0083: 2, L0770: 2, L0769: 2, L0761: 2, L0657: 2, L0659: 2, L0783: 2, L0519: 2, L0663: 2, L0664: 2, L0438: 2, L0581: 2, L0608: 2, H0423: 2, H0422: 2, S6024: 1, H0650: 1, H0664: 1, L0481: 1, S0356: 1, H0611: 1, S0010: 1, H0581: 1, H0251: 1, H0046: 1, H0050: 1, S0048: 1, H0266: 1, H0188: 1, L0483: 1, H0591: 1, H0038: 1, H0040: 1, H0616: 1, L0564: 1, H0022: 1, H0509: 1, H0130: 1, S0422: 1, L0640: 1, L0771: 1, L0662: 1, L0768: 1, L0766: 1, L0375: 1, L0776: 1, L0809: 1, L0528: 1, L0792: 1, H0659: 1, H0670: 1, H0660: 1, H0648: 1, S0380: 1, H0521: 1, H0696:	244
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927	HTFNS65	878748	937	190 - 750	2342	Tln-15 to His-21, Gly-30 to Lys-39, Arg-113 to Met-118, Arg-178 to Ala-187.  AR053: 1, AR033: 1, AR089: 1, AR104: 1, AR060: 0, AR039: 0, AR061: 0, AR055: 0, AR052: 0, AR096: 0 L0777: 8, H0159: 3, S0408: 3, H0619: 3, L0770: 3, L0766: 3, L0783: 3, H0657: 2, H0617: 2, L0754: 2, L0747: 2, L0755: 2, L0731: 2, L0758: 2, H0265: 1, H0685: 1, S0134: 1, S0212: 1, H0663: 1, H0306: 1, H0402: 1, H0638: 1, S0444: 1, H0580: 1, S0046: 1, L0394: 1, H0431: 1, S0280: 1, H0052: 1, H0046: 1, H0081: 1, H0012: 1, S0036: 1, H0038: 1, H0412: 1, H0695: 1, L0769: 1, L0638: 1, L0764: 1, L0662: 1, L0774: 1, L0775: 1, L0375: 1, L0379: 1, L0438: 1, H0648: 1, S0028: 1,	133-158		

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928	HDABG90	878755	938	43 - 1284	2343	Tyr-4 to Gln-9, Asp-49 to Lys-54.	AR096: 2, AR033: 1, AR053: 1, AR089: 1, AR052: 1, AR039: 1, AR061: 1, AR060: 1, AR055: 1, AR104: 0, H0616: 2, H0497: 1 and H0618: 1.		226-264, 106-132, 139-171, 313-343, 178-201, 286-302, 217-234
929	HDPQO40	878790	939	106 - 726	2344	Pro-28 to Arg-35, Ser-51 to Pro-56, Pro-201 to Ser-207.	AR053: 3, AR052: 2, AR089: 2, AR096: 2, AR055: 2, AR033: 2, AR060: 2, AR061: 1, AR104: 1, AR039: 0, H0486: 3, L0766: 3, L0777: 3, S0002: 2, S0426: 2, L0743: 2, L0779: 2, L0759: 2, S0474: 1, H0673: 1, H0674: 1, H0477: 1, L0805: 1, L0659: 1, L0790: 1, H0522: 1, H0478: 1, H0445: 1 and H0543: 1.		157-173, 88-104, 13-29
930	HKAHL37	878823	940	12 - 698	2345	Gln-12 to Phe-25, Ala-82 to His-93, His-212 to Ala-217.	AR033: 5, AR061: 4, AR089: 3, AR052: 3, AR053: 2, AR055: 2, AR096: 2, AR060: 1, AR104: 1, AR039: 0, L0758: 12, H0617: 9,		21-46, 185-205, 50-74, 125-142, 106-122

L0747: 8, H0618: 5, H0253: 4, S0049: 4, H0494: 4, L0742: 4, L0751: 4, L0745: 4, H0305: 3, H0580: 3, H0052: 3, L0157: 3, L0769: 3, L0768: 3, L0766: 3, L0774: 3, L0783: 3, H0144: 3, S0436: 3, H0341: 2, S0360: 2, H0550: 2, H0546: 2, H0424: 2, L0763: 2, L0793: 2, L0748: 2, L0439: 2, L0740: 2, L0752: 2, L0755: 2, L0757: 2, L0759: 2, L0581: 2, S0452: 2, H0556: 1, S0114: 1, H0483: 1, H0661: 1, S0358: 1, S0132: 1, S0476: 1, H0261: 1, S6016: 1, S0222: 1, H0592: 1, H0586: 1, H0559: 1, H0486: 1, T0060: 1, S0280: 1, H0575: 1, H0706: 1, L0024: 1, H0150: 1, H0620: 1, H0024: 1, T0010: 1, S6028: 1, H0179: 1, H0252: 1, H0417: 1, H0674: 1, H0708: 1, H0038: 1, H0059: 1, T0042: 1, H0509: 1, H0641: 1, S0144: 1, L0770: 1, L0637: 1, L0761: 1, L0363: 1, L0794: 1,					
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931	HBXAX11	878833	941	79 - 1239	2346	Met-1 to Tyr-11, Ser-190 to Thr-195, Pro-223 to Ser-229.  AR033: 4, AR096: 3, AR061: 2, AR052: 2, AR053: 2, AR089: 1, AR060: 1, AR055: 1, AR104: 1, AR039: 0 L0809: 7, L0769: 4, L0761: 4, L0751: 4, L5565: 2, L0764: 2, L0766: 2, L0665: 2, L0747: 2, L0605: 2, H0657: 1, H0188: 1, S0038: 1, H0625: 1, L0646: 1, L0643: 1, L0645: 1, L0648: 1, L0768: 1, L0794: 1, L0649: 1, L0651: 1, L0655: 1, L0659: 1, L0382: 1, L0647: 1, L0666: 1, H0547: 1, H0519: 1, L0779: 1, L0752: 1, L0731: 1, L0757: 1, L0758: 1 and L0587: 1.			125-143, 145-161, 70-86



932	HMVBC71	878904	942	175 - 744	2347	Pro-45 to Thr-52, Pro-57 to Gly-69, Pro-76 to Asn-86, Glu-92 to Gly-98, Asn-114 to Thr-121, Arg-147 to Arg-155, Pro-170 to Thr-181.	AR033: 6, AR104: 4, AR096: 4, AR089: 3, AR053: 2, AR060: 2, AR055: 2, AR052: 2, AR039: 2, AR061: 1 S0330: 3, S0046: 2, H0494: 2, L0065: 2, L0666: 2, H0670: 2, L0439: 2, H0624: 1, H0686: 1, H0295: 1, S0212: 1, S0442: 1, H0735: 1, H0549: 1, H0392: 1, H0559: 1, H0052: 1, H0597: 1, H0327: 1, H0009: 1, H0024: 1, S0050: 1, S0051: 1, H0428: 1, S0150: 1, H0641: 1, L0637: 1, L0662: 1, L0794: 1, L0649: 1, L0803: 1, L0774: 1, L0775: 1, L0651: 1, L0659: 1, L0526: 1, L0663: 1, L0665: 1, H0593: 1, H0690: 1, S0328: 1, H0696: 1, H0555: 1, S0037: 1, S0028: 1, L0756: 1, L0759: 1, S0434: 1 and S0276: 1.			122-145, 2-34
933	HHFML06	878912	943	140 - 559	2348	Lys-36 to Lys-41, Val-133 to Asn-140.	AR055: 9, AR089: 6, AR052: 6, AR033: 6, AR060: 5, AR061: 5, AR096: 5, AR053: 4, AR104: 4, AR039: 1	14q24.3	104311, 109150, 182600, 245200, 601208	101-127, 3-20, 52- 68, 80-96

934	HHEAG84	878975	944	181 - 645	2349	Lys-13 to Thr-19.	AR096: 12, AR060: 10, AR055: 8, AR053: 8, AR104: 7, AR089: 7, AR052: 6, AR033: 5, AR039: 5, AR061: 4 H0549: 1 and H0538: 1.		33-51
935	HE8PT01	878979	945	1519 - 1929	2350	Met-113 to Arg-118.	AR039: 29, AR033: 19, AR104: 18, AR055: 18, AR053: 16, AR089: 13, AR052: 13, AR096: 13, AR060: 12, AR061: 12 L0747: 4, L0777: 4, S0222: 2, L0471: 2, L0455: 2, L0803: 2, L0790: 2, L0742: 2, L0748: 2, L0439: 2, L0753: 2, L0759: 2, L0717: 1, H0013: 1, H0575: 1, S0010: 1, H0350: 1, T0006: 1, L0770: 1, L0764: 1, L0794: 1, L0784: 1, L0806: 1, L0805: 1, S0052: 1, H0144: 1, L0438: 1, H0689: 1, L0749: 1, L0758: 1, H0445: 1 and L0599: 1.		91-109, 121-137
936	HMVCG79	879020	946	38 - 853	2351	Thr-28 to Arg-34, Leu-47 to Ser-53.	AR089: 6, AR060: 5, AR033: 4, AR104: 4, AR096: 3, AR039: 3, AR052: 3, AR053: 3,	6q14-q15	141-165, 233-255, 3-25, 56- 72, 166-

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937	HSLJF33	879040	947	18 - 521	2352	Glu-65 to Gly-71. AR096: 2, AR039: 2, AR053: 1, AR052: 1, AR061: 1, AR089: 1, AR055: 0, AR033: 0, AR060: 0, AR104: 0 S0390: 1	97-126, 1439, 43- 63, 125- 141
938	HFKJI43	879115	948	60 - 377	2353	AR033: 33, AR104: 32, AR055: 22, AR039: 20, AR053: 16, AR089: 16, AR096: 13, AR060: 13, AR052: 12, AR061: 8 L0747: 17, S0442: 15, L0665: 13, S0358: 11, S0444: 11, S0408: 10, S0374: 10, H0597: 7, H0620: 6, L0375: 6, L0518: 5, H0539: 5, L0750: 5, H0135: 4, L0764: 4, L0776: 4, H0144: 4, L0751: 4, H0352: 4, H0170: 3, S0376:	52-82

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939	HPVHV40	879156	949	104 - 808	2354	Tyr-122 to Asp-127, Glu-138 to Pro-150, Arg-160 to Asn-169.	AR033: 6, AR055: 6, AR053: 5, AR096: 5, AR052: 5, AR104: 4, AR061: 4, AR060: 4, AR039: 3, AR089: 3, L0758: 16, L0748: 10, H0620: 7, L0731: 6, H0246: 5, S0007: 4, H0253: 4, L0769: 4, L0754: 4, H0052:			74-91, 170-186, 1-17

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940	HTXLR12	879160	950	714 - 2069	2355	Tyr-48 to Asn-54.	AR052: 4, AR055: 4, AR039: 3, AR060: 3, AR096: 3, AR033: 3, AR053: 2, AR089: 2, AR061: 2, AR104: 2 H0038: 2, H0265: 1, H0556: 1, S0134: 1, H0645: 1, S0222: 1, L0455: 1, S0328: 1, S0028: 1, L0591: 1 and S0194: 1.			425-451, 415-431
941	HDQEX68	879167	951	10 - 1470	2356	Asp-4 to Glu-9, Ala-44 to Glu-62,	AR052: 9, AR033: 5, AR053: 5, AR096: 3,	4		371-388, 295-311,

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						Leu-113 to Gln-120, Asp-131 to Glu-137, Lys-187 to Glu-194, Glu-315 to Arg-321, Gln-433 to Ser-439, Lys-446 to Pro-451, Lys-463 to Ser-470.	AR089: 3, AR060: 2, AR104: 2, AR061: 2, AR039: 2, AR055: 1 S0192: 11, L0731: 10, L0754: 8, L0439: 5, S0022: 4, H0551: 4, L0747: 4, H0046: 3, S0003: 3, H0031: 3, H0616: 3, L0771: 3, L0766: 3, L0666: 3, H0521: 3, L0759: 3, S0212: 2, H0575: 2, H0251: 2, H0596: 2, H0050: 2, L0471: 2, H0024: 2, H0328: 2, H0111: 2, L0803: 2, L0804: 2, L0659: 2, S0374: 2, L0438: 2, S0126: 2, S0028: 2, L0740: 2, S0040: 1, T0049: 1, H0650: 1, S0358: 1, H0580: 1, S0046: 1, H0640: 1, S0300: 1, H0574: 1, H0632: 1, H0270: 1, H0013: 1, H0156: 1, H0545: 1, H0051: 1, H0355: 1, H0510: 1, S0214: 1, H0615: 1, H0644: 1, L0055: 1, H0163: 1, H0090: 1, H0038: 1, H0059: 1, H0494: 1, H0509: 1, H0633: 1, S0344: 1, S0210: 1, S0002: 1, L0369: 1, L0646: 1, L0521: 1,



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942	HTPHG81	879182	952	198 - 1127	2357	Pro-9 to Glu-16, Ser-25 to Asp-31, Glu-55 to Glu-61, Met-87 to Gly-104, Cys-151 to Trp-157, Arg-222 to Glu-231, Val-275 to Pro-284.	AR039: 19, AR053: 13, AR096: 9, AR052: 9, AR055: 9, AR033: 9, AR089: 8, AR104: 7, AR060: 7, AR061: 6 H0553: 2, S0282: 1, S0049: 1, H0052: 1, H0622: 1, H0040: 1 and S0406: 1.		239-255, 114-130, 203-219
943	HETFI66	879189	953	82 - 1503	2358	Pro-12 to Val-29, Glu-35 to Arg-40, Arg-46 to Ile-52, Tyr-88 to Ser-97, Gly-112 to Cys-117.	AR055: 5, AR052: 4, AR053: 3, AR061: 3, AR060: 3, AR033: 2, AR089: 2, AR096: 1, AR104: 0, AR039: 0 L0794: 24, H0046: 20, L0747: 5, L0748: 4, L0749: 4, H0013: 3, H0624: 2, H0553: 2, H0090: 2, L0761: 2, L0800: 2, L0767: 2,	195-211, 115-131	

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944	HUVCMS8	879222	954	116 - 1750	2359	Arg-34 to Glu-41, Met-74 to Thr-80, Glu-124 to Lys-133, Pro-166 to Val-177, Arg-234 to Val-244, Ile-251 to Arg-259, Leu-261 to Leu-269, Gln-271 to Arg-284, Lys-399 to Pro-407, Ile-449 to Ser-458, Lys-464 to Gln-474.	AR089: 9, AR096: 8, AR033: 8, AR052: 7, AR053: 7, AR060: 5, AR061: 3, AR055: 3, AR104: 0 L0752: 8, L0766: 6, S0444: 5, L0770: 5, L0439: 5, L0731: 5, S0360: 3, H0031: 3, L0803: 3, S0126: 3, L0755: 3, L0758: 3, S0358: 2, H0722: 2, H0090: 2, H0056: 2, L0805: 2, L0659: 2, L0666: 2, L0665: 2, H0519: 2, S0330: 2,			297-331, 138-166, 4-35, 404- 431, 41- 73, 360- 385, 99- 123, 494- 516, 188- 210, 339- 355

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945	HDPG103	879294	955	475 - 32	2360	Asp-25 to Gln-32, Asn-40 to Lys-46, Tlp-54 to Asn-62.  AR104: 2, AR096: 2, AR052: 1, AR039: 1, AR055: 1, AR033: 1, AR060: 1, AR061: 1, AR089: 0, AR053: 0 S0278: 5, S0144: 5, S0002: 4, H0521: 4, S0003: 3, S0344: 3, H0575: 1, H0364: 1, S0214: 1, H0068: 1, H0591: 1, L0806: 1, L0805: 1 and L0776: 1.			60-87
946	HUSIT07	879441	956	111 - 902	2361	Arg-24 to Arg-29, Arg-144 to Asn-151.  AR053: 10, AR033: 10, AR052: 9, AR089: 9, AR055: 8, AR060: 5, AR061: 4, AR039: 3, AR096: 2, AR104: 0 H0435: 3, S0476: 2, H0590: 2, L0758: 2, H0656: 1, H0484: 1, H0729: 1, S0046: 1, H0393: 1, H0632: 1, H0013: 1, S0474: 1, S0049: 1, H0074: 1, L0455: 1, H0598: 1, H0412: 1, L0648: 1, L0649: 1, L0527: 1, L0657: 1, L0659: 1, L0530: 1, H0539: 1, H0521:			1-22, 172- 195, 214- 241, 89- 122, 82- 98, 150- 166

947	FWHHNS 5	879514	957	114 - 1013	2362	Gly-14 to Lys-22.	AR039: 19, AR096: 9, AR104: 8, AR033: 8, AR053: 8, AR052: 7, AR089: 6, AR055: 5, AR060: 5, AR061: 4 S0348: 1, S0418: 1, H0592: 1 and H0586: 1.			215-231
948	HTTJH57	879541	958	15 - 839	2363	Pro-8 to Ser-14, Leu-16 to Gly-25, Gly-33 to Gly-38, Glu-43 to Glu-51.	AR052: 5, AR055: 5, AR060: 3, AR039: 3, AR061: 3, AR089: 2, AR033: 2, AR096: 2, AR053: 1, AR104: 1 H0052: 1, H0286: 1, H0634: 1 and L0771: 1.			238-255
949	HMSND53	879589	959	22 - 1947	2364	Lys-37 to Lys-47, Thr-87 to Lys-93, Gly-100 to Val-105, Gln-111 to Thr-128, Pro-155 to Asp-173, Gln-177 to Gln-184, Glu-202 to Leu-216, Asn-272 to Asp-277, Asp-289 to His-297, Gly-395 to Phe-402, His-435 to Ala-440, Asp-489 to Glu-498, Arg-581 to Gln-586, Thr-611 to Arg-616,	AR060: 2, AR096: 2, AR089: 2, AR033: 2, AR053: 2, AR061: 1, AR052: 1, AR055: 1, AR104: 1 L0439: 9, L0471: 3, H0591: 2, H0547: 2, H0624: 1, H0170: 1, S0430: 1, H0656: 1, S0110: 1, S0420: 1, S0376: 1, T0114: 1, H0427: 1, H0071: 1, H0275: 1, T0010: 1, S6028: 1, H0266: 1, H0428: 1, H0031: 1, H0090: 1, H0038: 1,			254-270, 357-373, 595-611, 541-557

					Glu-624 to Cys-636.	H0040: 1, H0551: 1, S0014: 1, H0646: 1, S0426: 1, H0529: 1, L0766: 1, H0520: 1, S0126: 1, H0689: 1, H0518: 1, L0754: 1, L0485: 1 and H0423: 1.			
950	HMSNQ62	879610	960	149 - 1783	2365	AR055: 5, AR060: 4, AR096: 4, AR039: 3, AR053: 3, AR052: 3, AR033: 3, AR061: 3, AR089: 3, AR104: 2, H0457: 4, L0754: 4, L0803: 3, L0439: 3, H0575: 2, H0617: 2, L0662: 2, L0804: 2, L0805: 2, L0750: 2, L0731: 2, H0656: 1, H0484: 1, H0255: 1, H0663: 1, L0717: 1, H0549: 1, S0222: 1, H0602: 1, H0486: 1, H0013: 1, H0581: 1, H0251: 1, H0046: 1, H0150: 1, H0428: 1, H0553: 1, H0040: 1, H0063: 1, H0264: 1, H0623: 1, S0002: 1, S0426: 1, L0762: 1, L0763: 1, L0769: 1, L0766: 1, L0774: 1, L0787: 1, L0666: 1, L0663: 1, L0665: 1, L0565: 1, H0689: 1, H0658: 1, H0670: 1, S0136: 1,			109-125, 523-539

							H0521: 1, L0748: 1, L0747: 1, L0752: 1 and H0423: 1.			
951	HGBHG78	879611	961	175 - 582	2366	Arg-63 to Thr-73, Pro-85 to Ser-92.	AR055: 15, AR053: 11, AR052: 10, AR089: 8, AR033: 8, AR060: 8, AR096: 7, AR061: 6, AR104: 6, AR039: 4, H0014: 1 and L0752: 1.	22q13.31	250100, 250800, 250800	40-57, 22-38
952	HTLHJ08	879620	962	59 - 967	2367	His-204 to Pro-209.	AR039: 44, AR055: 30, AR053: 22, AR033: 21, AR089: 19, AR060: 19, AR052: 18, AR096: 17, AR104: 16, AR061: 14, H0107: 2, L0758: 2, H0618: 1, H0154: 1, H0553: 1, H0038: 1 and H0616: 1.			70-98, 101-125, 169-190, 138-154
953	HSIDI48	879670	963	60 - 923	2368	His-102 to Gln-108, Asp-251 to Tyr-263, Gly-274 to Lys-288.	AR089: 17, AR052: 12, AR096: 9, AR039: 9, AR060: 8, AR104: 7, AR053: 6, AR033: 5, AR061: 5, AR055: 3, L0439: 17, L0777: 7, L0766: 6, L0740: 6, L0758: 5, L0483: 4, L0592: 4, H0178: 3, L0794: 3, S0358: 2, H0036: 2, H0039: 2, H0622: 2, H0644: 2, L0804: 2, L0775: 2, L0805: 2, L0438: 2, L0352: 2, H0670:			171-199, 78-97, 230-249, 33-50, 113-129, 215-231, 155-171, 15-31

						2, L0754: 2, L0785: 1, S0212: 1, H0664: 1, L0005: 1, S0356: 1, S0354: 1, H0329: 1, S0007: 1, S0046: 1, H0632: 1, H0486: 1, H0590: 1, S0010: 1, H0581: 1, S0049: 1, H0052: 1, L0471: 1, H0328: 1, T0023: 1, H0553: 1, H0181: 1, H0673: 1, H0674: 1, H0090: 1, H0059: 1, L0598: 1, L0769: 1, L0638: 1, L0761: 1, L0771: 1, L0803: 1, L0776: 1, L0659: 1, L0518: 1, L0783: 1, L0666: 1, L0665: 1, S0374: 1, H0520: 1, H0658: 1, S0328: 1, S0330: 1, S0152: 1, H0696: 1, S0404: 1, H0631: 1, S0028: 1, L0743: 1, L0750: 1, L0731: 1, H0444: 1, L0366: 1, S0026: 1, S0424: 1 and H0506: 1.					
954	HRDDU37	879672	964	15 - 611	2369	Leu-21 to Lys-29, Gly-39 to Pro-51, Arg-68 to Lys-73, Val-91 to Pro-97, Glu-113 to Arg-120, Val-122 to Gly-131.	AR033: 4, AR055: 3, AR061: 2, AR060: 2, AR096: 2, AR089: 2, AR052: 2, AR039: 1, AR053: 1, AR104: 0 L0439: 11, L0750: 5, L0766: 4, L0803: 4, H0519:				141-162